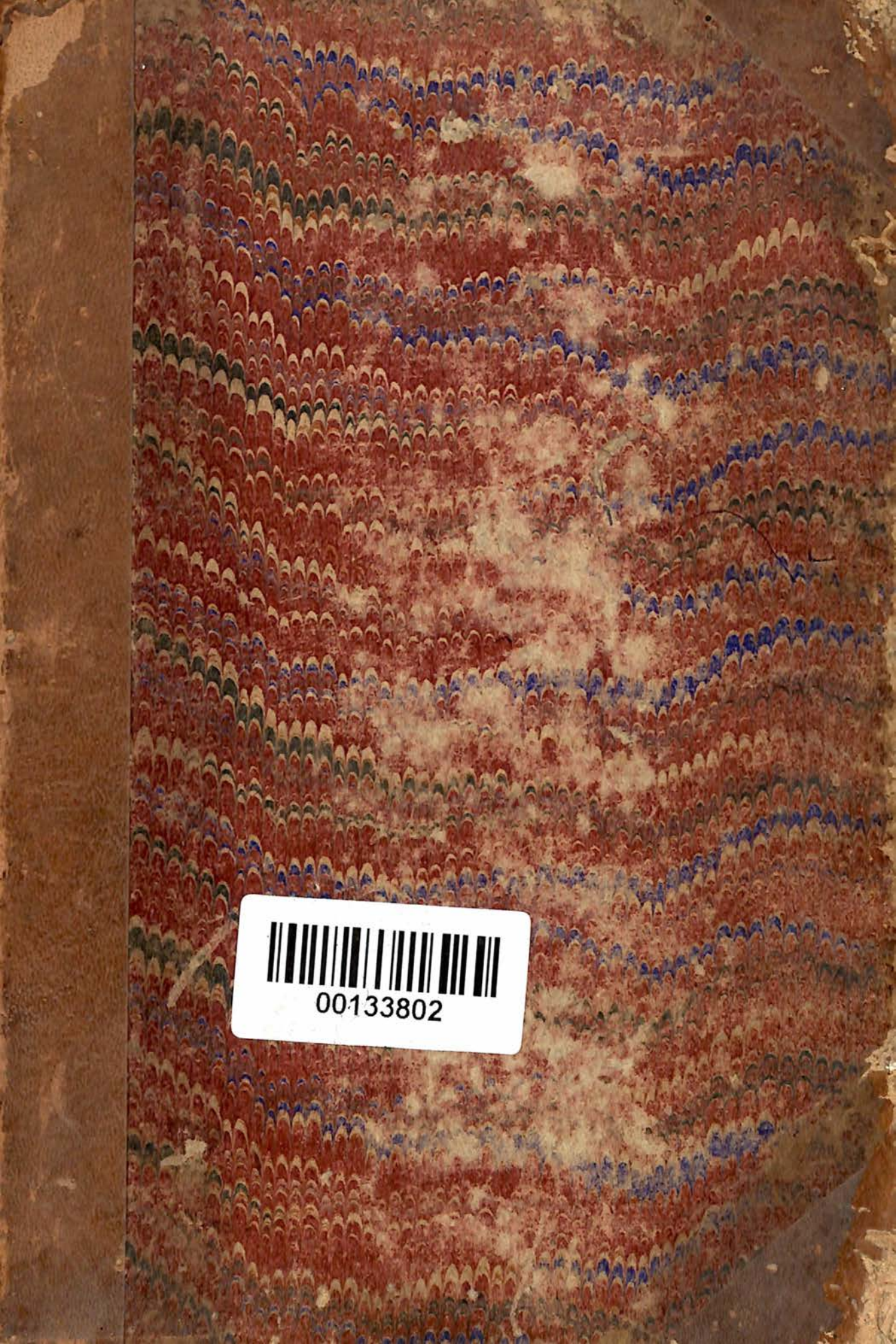
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Bombay Municipality.

RECORD OF THE PROCEEDINGS

OF

THE STANDING COMMITTEE,

1894-95.

133862

PART II.

VOL. XVIII.

Part II.—PROCEEDINGS OF THE STANDING COMMITTEE AND APPENDICES.

PREPARED BY THE

MUNICIPAL SECRETARY.

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Appendices.

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PART II.

PROCEEDINGS OF THE STANDING COMMITTEE OF THE MUNICIPAL CORPORATION OF BOMBAY.

BOMBAY, *4th April* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M. ; E. B. CARROLL, ESQ., M.I.C.E. ; COWASJEE HORMUSJEE, ESQ., G.G.M.C. ; THE HON'BLE MR. FAZULBHOY VISRAM ; HURKISONDAS NURROTUMDAS, ESQ. ; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK ; KAIKHOSRO N. KABRAJI, ESQ. ; K. M. SHROFF, ESQ. ; G. W. ROUGHTON, ESQ. ; S. REBSCH, ESQ., ASSOC. M.I.C.E. ; ACCACIO G. VIEGAS, ESQ., L.M. & S. ; R. H. VINCENT, ESQ., C.I.E. ; H. A. ACWORTH, ESQ., I.C.S., Commissioner ; and the SECRETARY.

The minutes of the Meeting held on the 28th *ultimo*, were signed.

Proposed by Bhalchandra K. Bhatawadekar, Esq., seconded by K. M. Shroff, Esq., "That Cowasjee Hormusjee, Esq., do take the Chair."

Carried.

In accordance with the notice it was proposed by the Hon'ble Mr. Javerilal U. Yajnik, "That G. W. Roughton, Esq.," be elected Chairman of the Standing Committee for the year 1894-95." The motion was seconded by Kaikhosro N. Kabraji, Esq., in the absence of Hurkisondas Narrotumdas, Esq., and was

Carried (by acclamation).

Proposed by A. G. Viegas, Esq., seconded by the Hon'ble Mr. Javerilal U. Yajnik—

"That the best thanks of the Committee be tendered to Cowasjee Hormusjee, Esq., for the very valuable service he has rendered as Chairman of the Standing Committee during the past two years and for the zeal and ability he has manifested in the discharge of the important duties of that office."

Carried (by acclamation).

The seal of the Corporation was affixed to the following :—(1) To deed of contract with Messrs. Paranjapye and Co. for the supply of medicines and instruments for veterinary dispensary, Victoria Gardens, at schedule rates ; and (2) ditto with Messrs. Spencer & Co. for paving and V draining the van siding behind the Bandora Slaughter Houses.

The seal was also affixed to (1) 3 Attested Duplicate Debentures of the Municipal (Drainage) Loan of 1878, Nos. 3246, 3259 and 3260 of Rs. 500 each; (2) to 111 new debentures of the 1st instalment of 23¼ Lakhs Loan for the construction of drainage and water works, roads and other works, Nos. 1 to 14, 21 to 112, and 133 to 137 of Rs. 500 each; and 13 ditto Nos. 15-16 to 19-20, and 113-114 to 131-132 of Rs. 1,000 each.

No. 97. *Resolved:* "That, as applied for by the Commissioner, in his Memorandum No. 316, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 98. *Resolved:* "That, as applied for by the Commissioner in his letter No. 212, dated 3rd instant, sanction be given to the purchase from Messrs. Dadabhoy Hormusjee & Co. of 250 tons of Powell's Duffryn and 250 tons Davison's West Hartley coal, at Rs. 19-6-0 and Rs. 17-6-0 per ton, respectively, delivered at Love Grove. The total cost, Rs. 9,187-8-0, to be met from the grant for coal for the Love Grove engines during 1894-95.

"That, under the terms of section 72 (3) of the Municipal Act, the Committee dispense with the invitation for tenders which would otherwise be necessary, as the present arrangements for the purchase of coal are advantageous to the Municipality."

No. 99. *Resolved:* "That the following be recorded:—Letter No. 28315, dated 31st ultimo, from the Commissioner, reporting that he has sold the right of removing fruit from 3 mango trees standing on Municipal ground at Supari Baug Road, for the approaching season, to Luxmon Govind, for Rs. 19."*

No. 100. *Resolved:* "That the following be recorded:—Letter No. 28322, dated 31st ultimo, from the Commissioner reporting the sale of rights of cutting grass, catching fish, &c., for 1894-95, as per following statement."

* NOTE:—This right has been sold for the first time this year.

Pro. Nos.	Names of Lease-holders.	Description of Lands.	Acres of land let.	For what purpose.	Amount realized. 1893-94.	Amount realized. 1894-95.	For what period.
					Rs. A. P.	Rs. A. P.	
1	Suggaji Ramji and Tukaram Daji.	Municipal reclaimed ground at Tardeo Flats, such portions of the Flats as are not required for the deposit of Town sweepings.	Acres about 60	Cultivation.	9,500 0 0	10,000 0 0	Portion from April to September 1894 and portion for 1894-95.
2	Do.	Do. do. at Sion	4½	Do.	650 0 0	500 0 0	Do.
3	Do.	Do. do. at Dharavi Road, Mahim ...	Square Yards 840	Do.	350 0 0	325 0 0	
4	Somadnan Sobha. ..	Ground at Clerk Road, North side	3177	Do.	715 0 0	700 0 0	
5	Rubbaji Genoojee.....	Worlee reclamation ground	About 1 acre	Do.	140 0 0	155 0 0	From 1st April 1894 to 31st March 1895.
6	Veera Dooda and Waga Dooda.	Ground, tank and water course on the west side of Arthur Road.	12½ acres	Do. and cutting grass	2,230 0 0	2,800 0 0	
7	Do.	Ground at Arthur Road and DeLisle Road adjoining the New Municipal Hospital and Sheep Market and portion of land on side of Chinchpokli Drain between DeLisle Road and G. I. P. Railway Culvert.	Sq. yards. 14735	Do.	970 0 0	1,040 0 0	
8	Mullo Mukunji and Syonsia Dhurmaji.	Haines Road Burial ground	...	Cutting grass and grazing cattle.	330 0 0	185 0 0	
9	Condajee Mahadeo and Nursoo Yellapa.	Clerk Road North of Old Cemetery	..	Do.	190 0 0	145 0 0	
10	Joao Antonio Patell ..	Water channel on Municipal ground at Coorla.. ...	..	Catching fish.	20 0 0	28 0 0	
11	Luchmon Ramroo and Yenkti Ramroo.	Sides of open drain in Currey Road and DeLisle Road ...	...	Cutting grass.	....	15 0 0	
12	Jeewa Nasier	Milch Cattle Stables, Kamathipura, Agripada, C Ward Stable.	...	Removing Cow-dung.	305 0 0 95 0 0 25 0 0	130 0 0 60 0 0 25 0 0	
13	Bhimham Dewoo Hursett.	Sides of the water course at Elphinstone Road	...	Cutting grass.	10 0 0	10 0 0	
				Total Rs...	15,530 0 0	16,118 0 0	

Resolved: "That, as applied for by the Commissioner in his letter No. 28201, dated 30th ultimo, sanction be given to the payment of a monthly pension of Rs. 45-3-9 to Mr. G. Moore, late Inspector, Executive Engineer's Department, from 1st November 1893."

No. 101.

Read letter No. 27961, dated 27th ultimo, from the Commissioner to the Secretary, as under :—

SIR,—With reference to Standing Committee's Resolution No. 5774 of 20th September last, calling for certain information as to the special Halalkhor charges levied on hotels, clubs, &c., I have the honour to state that the Health Officer reports that, as the collection of the details will entail an enormous amount of labour it will be necessary to engage two extra clerks for the work, one on Rs. 50 and the other on Rs. 40 per month, until the returns are completed. I have, therefore, to request the sanction of the Standing Committee and the Corporation to the employment of the extra temporary establishment proposed by the Health Officer. Cost to be met out of unappropriated balances.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved: "That, with reference to letter No. 27961, dated 27th ultimo, from the Commissioner, and Resolution of the Committee No. 5774, dated 20th Sept. 1893, the Commissioner be asked to supply information with reference to paras. 1, 3, 4, 6 & 7 only of that Resolution."

No. 102.

Read Memorandum No. 28036, dated 28th ultimo, from the Commissioner to the Secretary, as under :—

Corporation Resolution No. 13938, of 19th, and Standing Committee Resolution No. 13983, of 20th instant.

The sum to be raised is Rs. 8,51,655, say 8½ lakhs. The details are given in the report of the Committee of the Corporation, dated 16th March 1894, and are as under:—

Roads.	Rs.
Wari Bunder Road	7,30,000
Victoria Road	36,200
Carried over Rs...	7,66,200

Brought forward Rs....	7,66,200
Burial ground.	
Port Trust ground, 30,287 sq. yds. at Rs. 5.	1,51,435
Mazagon Manufacturing Company's ground, 3592 sq. yds. at Rs. 5	17,960
Wall	5,560
Filling	67,000
	Rs. 10,08,155
Deduct—Port Trust Contribution.....	1,56,500
	Rs. 8,51,655

Out of the sum must be deducted Rs. 1,32,652 already included in the 23¼ lakhs loan, leaving Rs. 7,19,003 to be raised by loan. at 4 per cent.

We have sanction from the Government of India to raise in the current year a sum of Rs. 8 lakhs, and during 1895-96 a further sum of Rs. 2,25,000, both of them instalments of the 23¼ lakhs loan. It may reasonably be anticipated that the bridge work and the road work will be begun not later than after the coming monsoon, while the burial ground will presumably be taken over very shortly. The burial ground will not, however, immediately require any large outlay, as the most important item, viz., the Port Trust ground, will be paid for out of a sum to be received from the Port Trust. It is not probable that more than half a year's work will be done on the road. I am, therefore, averse to raising any portion of this loan of Rs. 7,19,000 this year, and would recommend that, in sanctioning the undertaking of the works, sanction be also accorded to payments being made out of loan and other balances pending the raising of a loan for Rs. 7,19,000, which should, I think, be raised in two instalments,—one of Rs. 4,19,000 in 1895-96 and one of 3 lakhs in 1896-97. I may add that it will probably not be necessary to raise in the current year the sum of 4 lakhs provided at page 74 of the budget for drainage and water works.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 103.

Resolved: "That letter No. 28036, dated 28th ultimo, from the Commissioner to the Secretary, regarding the Corporation's Resolution No. 13938, dated 20th ultimo, on the question of road improvement at Wari Bunder and the provision of burying ground for Mahomedans and Beni-Israel, be forwarded to the President with the recommendation that the Municipal portion of the works in question, amounting to Rs. 8,51,655, be defrayed out of Loan Funds.

"That as Rs. 1,32,652 of that amount have already been provided for in the Loan of Rs. 23,25,000, Government be asked to sanction the raising of a loan of Rs. 7,19,000 to meet the cost of the balance. That the loan of Rs. 7,19,000 be raised at 4 per cent. and run for a period of 40 years, and be raised in two instalments : one of Rs. 4,19,000, to be raised in 1895-6, and one of Rs. 3,00,000 in 1896-7.

"That as there are available balances no funds on this account should be borrowed this year, and sanction should be given to the payment of advances not exceeding the total of Rs. 8,51,655 from available balances, to be adjusted against the Loan Funds as received."

No. 104. *Resolved:* "That the following be *recorded* and passed on to the Corporation :—Letter No. 28105, dated 29th ultimo, from the Commissioner, reporting an excess of Rs. 29 on the work of connecting houses Nos. 5 to 9, Dammer Cross Lane, with the Municipal sewer thereat. The amount to be met from the grant for house connections, 1st Drainage Section."

No. 105. *Resolved:* "That, as applied for by the Commissioner in his letter No. 28204, dated 30th ultimo, sanction be given to the filing of a suit or of suits against Messrs. Venkoo Balloo and Co., contractors for Messrs. Laidlaw and Whiteaway's new building in Hornby Road and the building for the Army and Navy Stores, for the recovery of Rs. 4,955-6-6, being the amount of fees due by the contractors for the deposit of materials on the public road."

No. 106. *Resolved:* "That, as applied for by the Commissioner in his letter No. 28203, dated 30th ultimo, sanction be given, under the terms of Sections 211 and 517 (j) of the Municipal Act, to a suit being filed in the Court of Small Causes against Mr. G. L. Sahasrabudhe for the recovery of Rs. 11, being the amount of wheel tax for the quarter ending 30th September 1892."

Read letter No. 28202, dated 30th ultimo, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to state that the Health Officer reports that outbreaks of foot and mouth disease and rinderpest have affected the bullocks of the Health Department very seriously. 28 pairs of bullocks have died from January last to the 21st instant, and a large number of animals, which were attacked, have been very much reduced in strength and cannot do their ordinary work. I have, therefore, to request the sanction of the Standing Committee and Corporation to hire 30 carts with drivers and bullocks from the bullock contractor to assist in the removal of refuse until such time as the Garlick's Incinerator is at work and the new bullocks from Poona are obtained. The incinerator has not been taken over, as Messrs. William Watson and Co. have not fixed the revolving grid to the furnaces. They have been asked to fix it at once.

The monthly cost Rs. 1,046-4-0 can be met out of savings in the grant for feed of bullocks, section II., Labour A, Scavengering Branch, Health Department budget.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : "That, as applied for by the Commissioner, in his letter No. 28202, dated 30th ultimo, the Corporation be recommended to sanction the hiring of 30 carts with drivers and bullocks for the removal of refuse owing to bullocks of the Health Department being attacked with foot and mouth disease, and rinderpest. The monthly cost Rs. 1,046-4-0 to be met out of savings in the grant for feed of bullocks, Section II, Labour A, Scavengering Branch."

No. 107.

It was agreed that the papers handed in by the Commissioner on the subject of the transfer of Rs. 6,000 to meet the excess on the grant for materials, water works, be circulated and brought on at a future meeting, and that the consideration of the question be postponed in the meantime.

Considered letter No. 28239, dated the 30th ultimo, from the Commissioner to the Secretary, as under :—

SIR,—The Executive Engineer reports that an upper storied building has been erected by Mr. Eknath R. Khote at Clerk Road, the windows of which are close to the compound wall of the Municipal ground and which overlook the compound of the Municipal bungalow occupied by the Superintendent of the

Maintenance Branch Water Works with the view of preventing the owner from acquiring the right of light and air over our ground, he recommends that a screen wall be built along the boundary line of our ground in front of the house referred to. To avoid any dispute or litigation in future, it is very desirable, in the interests of the Municipality, to construct the wall, the cost of which is estimated at Rs. 700. Provision for this work was made in the list of new works for 1894-95, but it was not sanctioned by the Standing Committee. Subsequently Mr. Khote was asked whether he would pay Re. 1 per month in acknowledgment of the right of the Corporation to close up the windows whenever required and pass a writing to that effect. But he has replied that the raising of the wall will not interfere with or deprive him of light and air, and that, therefore, he cannot accept the terms above referred to. Under the circumstances there is now no alternative but to construct the wall, for which I request the Standing Committee to recommend the Corporation to sanction the necessary expenditure out of unappropriated balances to be adjusted hereafter against surplus cash balance when the accounts for the year 1893-94 are closed.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 109. *Resolved:* "That letter No. 28239, dated 30th ultimo, from the Commissioner, be forwarded to the Corporation with the recommendation that sanction be given to the expenditure of Rs. 700 from unappropriated balance to be adjusted hereafter against surplus cash balance when the accounts for 1893-94 are closed, to meet the cost of building a wall at Clerk Road, to prevent the owner of the building thereat from acquiring the right of light and air of Municipal ground and Water Works Maintenance building."

The consideration of notice of motion from Mr. G. W. Roughton to the effect that Resolution of the Standing Committee, No. 13977, dated 20th ultimo, be rescinded or modified was postponed till the next Meeting.

No. 111. *Resolved:* "That the following be *recorded:* Letter No. 28258, dated 30th ultimo, from the Commissioner, reporting the sale of right

of cultivating vegetables and rearing fish in Naigam tank for the year ending 31st March 1895 to one Mungroo Juggas for Rs. 250.*

No. 112.

Resolved: "That the consideration of letter No. 27781, dated 20th ultimo, from the Commissioner, on the subject of construction of filter beds at the Malabar Hill Reservoir, be postponed for a week."

Considered the following :—

No. 17240 of 1893-94.

BOMBAY, 14*th March* 1894.

TO THE MUNICIPAL COMMISSIONER.

SIR,—On the subject of introducing Bengal coal for driving the Municipal engines at Bombay, I have the honour to report that the following varieties and quantities of coal were purchased and tested with a view to ascertain their efficiency : (*a*) 20 tons of Sanctoria coal from Messrs. Finlay, Muir and Co. at Rs. 15-2 per ton, (*b*) 150 tons of Deshagur coal from Messrs. Brooks and Co. at Rs. 15-12 per ton, (*c*) 150 tons of Sanctoria coal from Messrs. Brooks and Co., at Rs. 15-12 per ton, and (*d*) 20 tons of best Bairakur coal from Messrs. Killick, Nixon and Co., price fixed by this Department Rs. 14-6 per ton.

2. The first three descriptions of coal were delivered at the Love Grove Pumping Station, and the fourth at the Municipal workshops.

3. The first two descriptions, viz., the Sanctoria and the Deshaghur, and also the West Hartley and Cardiff coals have been tested at the Love Grove Pumping Station with the following results. In the absence of suitable means at the Municipal Workshops, it has not been possible to test the calorific power of the fourth description.

DESCRIPTION OF COAL	AVERAGE EVAPORATIVE EFFICIENCY.
Sanctoria Coal.....	6·34 lbs. of water per lb. of coal.
Deshaghur „	5·99 „ „ „ „
½ West Hartley and ½ Cardiff Coal.....	7·44 „ „ „ „
Best Cardiff Coal purchased for engine trial	8·02 „ „ „ „

4. These trials shew that Sanctoria coal is the best of the Bengal coal delivered for our use and that its calorific efficiency, and consequently its commercial value is 14·79 per cent. less

* Last year the sale realised Rs. 60.

than that of a mixture of West Hartley and Cardiff Coal in equal proportions and 20·05 per cent. less than that of the best Cardiff coal.

5. There are other things against Bengal coal besides its low calorific efficiency. It is always of a dirty nature and gives out a very large quantity of ash which is unsaleable, whereas the ashes obtained from English coal has a market value. It requires more labour in frequent firing and in cleaning the fire-bars than that required by English coal. It also gives off a large quantity of smoke. This is rather a serious objection, as the Municipality should set a good example to others in reducing the smoke nuisance as much as possible.

6. Considering everything it appears to me that, with a view to encourage local industry, Sanctoria coal may be used for the Love Grove Pumping Engine if it can be had at a rate about 20 per cent. below that of a mixture of Cardiff and West Hartley coal. But I may state that it will be necessary to fix mechanical stokers to minimize as far as possible the smoke nuisance and the extra labour of firing. I am informed that where Bengal coal is in regular use, as in the Water Works Stations at Calcutta, it has been found necessary to fix such mechanical stokers. The stokers are easily attended to by one man and are worked by a small engine. The price of each boiler would be approximately £ (110) one hundred and ten.

I am making inquiries as to the cost of these stokers and the result will be communicated to you later on.

7. Either Sanctoria or Barrakur coal is suitable for steamrollers and may be used for that purpose as it is used only for lighting the fires, coke being used for the working of the rollers.—I have, &c.,

M. C. MURZBAN.

No. 28205 OF 30-3-94.

Copy forwarded to the Municipal Secretary with reference to Standing Committee's Resolution No. 4506 of 9-8-93, and Corporation Resolution No. 6225 of 28-9-93.

H. A. ACWORTH, Commissioner.

No. 113.

Resolved: "That Memorandum No. 28205, dated 30th ultimo, from the Commissioner, forwarding letter to himself from the Executive Engineer, reporting the results of trials of Bengal and other coal at Love Grove Pumping Engines and the Muni-

cipal workshops be forwarded to the Corporation with reference to their Resolution No. 6225, dated 28th September 1893."

No. 114. Proposed by Bhalchandra K. Bhatawadekar, Esq., seconded by the Honourable Mr. Javerilal U. Yajnik: "That Memoranda Nos. 27987 and 27992, dated 28th ultimo, from the Commissioner, be referred back to him for the favour of enquiring whether it was scientifically correct to lay down mains on the Bombay end of the Tansa pipe, which are $\frac{1}{8}$ of an inch thinner than those used on other portions of the Tansa Line, and, if not, why such mains of inferior thickness have been laid."

Carried.

No. 115. *Resolved*: "That, the following be circulated and brought on at a future meeting:—Letter to the Municipal Secretary, No. 6, dated 16th ultimo, from Messrs. Vishnu Narsingrao & Co., on the subject of the rate tendered by Mr. Sorabji Nowroji Moosa for the supply of road metal for 1894-95."

No. 116. *Resolved*: "That the following be referred to the Commissioner for favour of remarks:—Letter, dated 2nd instant, from Mr. Ahmed Mamood Surti, on the subject of payment of the compensation due to him in respect of land taken up from his property at Nizam Street, for the improvement of that thoroughfare."

Considered the following:—

3rd April 1894.

ADDITIONS TO AND ALTERATIONS OF OFFICE FURNITURE.

"That the following be referred for report to a Sub-Committee consisting of Messrs. S. Rebsch, K. M. Shroff and Kaikhosro N Kabraji:—Letter No. 25059, dated 20th ultimo, from the Commissioner, requesting sanction of the Standing Committee and Corporation to the expenditure of Rs. 6,161 for certain additional articles of furniture required and for certain alterations of furniture for the Municipal Office. The amount to be met out of savings in the grant for the office furniture, fittings, &c."

No. 14096.

The Sub-Committee appointed by the Standing Committee on the 28th ultimo, as per margin, beg to report that they have gone through the lists in question with the Executive Engineer and some of the Heads of Departments concerned, and have inspected certain portions of the building and some of the furniture which it is proposed to alter. Most of the additions or alterations

appear to be reasonable and necessary for the accommodation of the employés of the different offices, but in some cases it was found, in the course of discussion with Mr. Murzban and other officers, that some items in the original lists could be dispensed with, and that in other instances the estimates could be reduced without detriment to efficiency.

The principal reduction made by the Committee, however, is consequent on the omission of the provision for panelled and glazed partitions in one of the corridors on the second storey outside the offices of the different branches of the Engineer's Department so as to divide the corridor into portions reserved for the use of particular departments.

This is desirable, but not absolutely necessary, and the whole of the estimate of Rs. 1,318 has been cut out. This, together with the other reductions made in the estimates aggregating about Rs.2,951-12-0, will reduce the revised estimates to Rs. 3,736-12-0, which amount the Sub-Committee are of opinion the Standing Committee should recommend the Corporation to sanction.

The revised estimates are appended hereto.

S. REBSCH.
K. M. SHROFF.
KAIKHOSRO N. KABRAJI.

REVISED ESTIMATES.

Quantity.	Items.	Rate.	Per.	Amount.
	LIST OF ADDITIONS AND ALTERATIONS TO THE OFFICE FURNITURE REQUIRED BY THE HEADS OF DEPARTMENTS.	Rs. a. p.		Rs. dec.
	Health Officer's Department.			
450 s. ft. ...	Providing canvas curtains with rollers and pullies, arrangement in South corridor, ground floor, in front of Health Officer's and Assistant Health Officer's rooms.....	0 8 0	s. ft.	270·00
12 Nos. ...	Teakwood ink-stand supports for sloped desks.	Included in	Mr. Stevens' list.	
4 Nos. ...	To strengthen the present high tables in the Registration Branch with cross bars	5 0 0	Each.	20·00
4 Nos. ...	Sloped desks covered with cloth.....	8 0 0	„	32·00
4 „ ...	Foot rest	5 0 0	„	20·00
	CHIEF ACCOUNTANT'S DEPARTMENT.			
	For the Chief Accountant.			
1 „ ...	Teakwood stand with 3 tiers for books	25 0 0	„	25·00
1 „ ...	Teakwood book-shelf	25 0 0	„	25·00
	Carried over ...	.....	.....	392·00

Quantity.	Items.	Rate.	Per.	Amount.
		Rs. a. p.		Rs. dec.
	Brought forward ...	.....	.....	392·00
	OFFICE ROOM, ACCOUNTANT'S DEPARTMENT.			
36 Nos. ...	Teakwood bottle supports for slope desk	Provided in	Mr. Stevens' list.	
48 „ ...	Fixing one shelf to each of the pedestals of the sloped desk.....	1 8 0	Each.	72·00
14 Nos. ...	Fixed screens of doors to be cut and made to open on ordinary hinges	2 8 0	„	35·00
	CASH BRANCH.			
4 Nos. ...	Fixing two additional shelves to cupboards fixed in wall	4 8 0	„	18 00
2 „ ...	Do. pigeon holes to do.	9 0 0	„	18·00
	RECORD ROOM.			
24 Nos. ...	Two thin teakwood vertical partitions in each shelf of the panelled portion to allow of the vouchers being arranged according to months and year	2 0 0	„	48·00
24 „ ...	Pigeon-holes on the racks to allow of the files being arranged	3 8 0	„	84·00

	ASSESSOR AND COLLECTOR'S DEPARTMENT.				
4 Nos. ...	Teakwood sloped desks for writing tables	Included in	Mr. Stevens' list.		
1 No. ...	Screen (single) for Assistant Assessor	40 0 0	Each.		40·00
1 No. ...	Teakwood stand for hanging maps, &c.....	Included in	Mr. Stevens' list.		
106 Nos. ...	To curve out the tables of the Registration clerks from the centre	,,	,,	,,	
11 Nos. ...	Teakwood ink-bottle supports for sloped desks	,,	,,	,,	
	SUPERINTENDENT OF LICENSES				
2 Nos. ...	Fixed screens of doors to be cut and made to open on ordinary brass hinges	2 8 0	Each.		5·00
	FOR SUPERINTENDENT.				
1 No. ...	Wash hand stand with basin and jug ..... Looking-glass on wall ..... Screen for retiring room	50 0 0	.....		50.00
	OFFICE.				
1 No. ...	Teakwood rack with 30 pigeon holes (10′ × 3′ × 1′ 6″)	40 0 0	Each.		40·00
1 No. ...	Cupboard with 36 pigeon holes	60 0 0	,,		60·00
4 Nos. ...	Sloped desks covered with cloth.....	8 0 0	,,		32·00
4 ,, ...	Foot stays	5 0 0	,,		20·00
1 No. ...	Teakwood light ladder, 10 feet	20 0 0	,,		20·00
	Carried over ...	.....	.....		934·00

Quantity.	Items.	Rate.	Per.	Amount.
		Rs. a. p.		Rs. dec.
	Brought forward ...	.....		934·00
	THE REVENUE AND REFUND AUDIT OFFICE.			
20 Nos. ...	To curve out the tables from front and back board	1 8 0	Each	30·00
	EXECUTIVE ENGINEER'S DEPARTMENT, STREETS AND BUILDINGS AND GENERAL DEPARTMENT.			
3 Nos. ...	To provide pigeon holes in cupboards in Drawing Office	10 0 0	"	30·00
2 " ...	Screen single for Drawing Office	40 0 0	"	80 00
2 " ...	Teakwood high chairs for drawing	20 0 0	"	40·00
2 " ...	Closing a portion of survey Department General branch from corridors	30 0 0	"	60·00
1 " ...	Teakwood high sloped table for the Executive Engineer.....	80 0 0	"	80·00
4 " ...	Pigeon holes to presses in record	15 0 0	"	60·00
2 " ...	Plan presses	90 0 0	"	180·00
12 " ...	Providing teakwood drawers to the existing drawing tables	12 0 0	"	144·00
5 " ...	Pigeon holes in wooden rack of clerks' table..	5 0 0	"	25·00
.....	Providing foot stools	Included in	Mr. Stevens' list.	

		WATER ENGINEER'S OFFICE.			
7 Nos.	...	Existing record presses to be pigeon holed ...	15 0 0	Each.	105·00
8 Nos.	...	Existing presses to be provided with an additional shelf	2 0 0	„	16·00
6 Nos.	...	Existing writing table drawers to be removed and rounded at centre	6 0 0	„	36·00
2 „	...	Teakwood plan presses similar to the existing one with lock and keys complete	90 0 0	„	180·00
8 Nos.	...	Extra shelf in each of the cupboards in clerks' table	1 8 0	„	12·00
4 Nos.	...	Teakwood loose racks on writing table	5 0 0	„	20·00
		Teakwood ornamental screen.....	Included in	Mr. Stevens' list.	
		GENERAL ITEM.			
2 Nos.	...	Providing teakwood partition under main staircase to form a room under it for keeping stores, &c.	200 0 0	Each.	400·00
		MUNICIPAL SECRETARY'S OFFICE.			
.....		Fixing Map cornice in the Secretary's Office...	10 0 0		
5 Nos.	...	Curving out Clerks' tables	7 8 0		
1 „	...	Add for cost of ladder for clock (in all Rs. 20).	10 0 0		
					27 8 0
.....		Mr. Stevens' list	.....	.....	2,459 8 0 1,277 4 0
		Total Rs. ...	.....	.....	3,736 12 0

MR. STEVENS' LIST.

Quantity.	Items.	Rate.	Per	Amount.
	COMMISSIONER'S DEPARTMENT.	Rs. a.		Rs. a. p.
	General Clerks' Office.			
74 s. ft. ...	Teak screen 9' 3" long 8' 0" high lower half boarded and the upper half fitted with glazed casements to open on pivots, door half panelled and half glazed with fixtures and fastenings	3 0	s. ft.	222 0 0
48 s. ft. ...	Teakwood 1" boarded ceiling on joists over Telephone room formed by the screen described above	0 12	s. ft.	36 0 0
2 Nos. ...	Teakwood stands for books 13' × 1' 3" × 2' 0" placed on existing tables	25 0	Each.	50 0 0
	SECRETARY'S OFFICE.			
1 No. ...	Fixing clock in office.....	1 8	.....	1 8 0
1 No. ...	Ladder for clock in Council Hall.....	10 0	.....	10 0 0
	CHIEF ACCOUNTANT'S DEPARTMENT.			
36 Nos. ...	Teak ink bottle supports for sloping desks ...	1 8	Each.	54 0 0
	HEALTH OFFICER'S DEPARTMENT.			
1 No. ...	Fixing map cornice in Health Officer's Office.	5 0	Each.	5 0 0
18 Nos. ...	Brass hook in teak partition	0 2	„	2 4 0
12 Nos. ...	Ink bottle supports for sloping desks.....	1 8	„	18 0 0

	ASSESSMENT DEPARTMENT.						
25 Rft. ...	Teak battens 3″×2″ fixed with 16 blocks in walls with 16 brass hooks for maps	1	8	rg. ft.	37	8	0
106 Nos. ...	Table front and back boards to be curved out.	1	0	Each.	106	0	0
11 Nos. ...	Teak ink bottle stands for desks.....	1	8	„	16	8	0
	EXECUTIVE ENGINEER'S DEPARTMENT.						
33 Nos. ...	Table front boards to be cut out in the middle.	1	0	„	33	0	0
36 Nos. ...	Teak stands for ink bottles for sloping desks.	1	8	„	54	0	0
66 Nos. ...	Teak foot rests 2′ × 1′ 3″ for desks.	2	0	„	132	0	0
4 Nos. ...	Teak brackets or stands for clocks, including fixing in walls.....	8	0	„	32	0	0
1 No. ...	Teak light ladder 10 ft. long 18″ wide with treads 9″ to 10″ apart.....	20	0	„	20	0	0
11 Nos. ...	Green cloth blinds about 3′ 6″ × 3′ 6″ fixed on light teak frames with pulleys and lines complete for window heads.....	10	0	„	110	0	0
91·00 s. ft.	Teak venetianed casements to windows south front gable.....	.....		.....	.....		
44·00 s. ft....	Do. do. corridor, square feet 135 ...	2	8	s. ft.	337	8	0
135·00 s. ft....					1,277	4	0

No. 117. *Resolved*: "That the Report of the Sub-Committee of the Standing Committee, dated 3rd instant, on the question of providing extra furniture and alterations to furniture for the Municipal Offices and the estimates appended thereto be approved and adopted, and that the Corporation be recommended to sanction the expenditure of Rs. 3,736-12-0 to meet the cost of the above. The cost to be met from the savings in the grant for furniture, fittings, &c., for new building."

No. 118. *Resolved*: "That letter No. 57, dated 2nd instant, from the Commissioner to the Secretary, be forwarded to the Corporation, with reference to petition dated 19th ultimo, from Messrs. Dhanjibhoy Merwanji, Syed Abdulla and other contractors for the right to collect stall rents of the Foras Road Market, complaining that owing to the unlicensed bazaar at Kamatipura being allowed to continue, dealers abstain from renting stalls in the Market."

No. 119. *Resolved*: "That, as applied for by the Commissioner, in his letter No, 88, dated 2nd instant, and subject to the approval of the Corporation, sanction be given to the expenditure of Rs. 52, from the grant for house connections' first drainage section, for cost of removing 6 wall syphons and the provision in place thereof of buried gully traps for them on the premises owned by Ram Coverbai in Cavel Street."

Considered the following :—

No. 4914 of 1893-94.

BOMBAY, 31*st March* 1894.

To THE COMMISSIONER.

SIR,—As it will take some time to prepare detailed statements of the unexpended balances of the various lapsed grants (Revenue and Loan) for 1893-94 and previous years which require to be renewed during 1894-95, and as the sums legally due must be paid and works in progress carried on to completion, I have

the honor to request the favour of your obtaining sanction of the Standing Committee, under Section 132 of the Municipal Act, in the following cases, viz :—

(1) Payments for sanctioned works already done and for Establishment and labour already employed.

(2) Payments for stores, stationery and other supplies already bought or used and for printing advertisements and other contingent charges already incurred.

(3) Payment of interest and repayment of loans which became due, during 1893-94 and previous years, but which still remain unpaid.

(4) Adjustment of inter-departmental charges for 1893-94 and previous years.

(5) Payments towards completion of works still in progress or not yet undertaken up to the limits of the grants already sanctioned.

(6) Payments on account of pensions which became due in 1893-94, but which were not drawn by the parties on account of illness or other causes.

2. Detailed statements of the balances of the various grants requiring renewal will be submitted for the information of the Standing Committee as soon as the statements called for this day from the different heads of departments are received and accounst for 1894 are finally closed.—I have, &c.,

SORABJI NAVAROJI COOPER,
Chief Accountant.

No. 46 of *2nd April* 1894.

Forwarded to the Standing Committee for favour of sanction.

H. A. ACWORTH, Commissioner.

No. 120. *Resolved* : " That, as applied for by the Commissioner, in his memorandum No. 46, dated 2nd instant, and pending the completion of the detailed statement of unexpended balances of the

various lapsed grants (Revenue and Loan) for 1893-94 sanction be given under the terms of section 132 of the Municipal Act to the following payments, on account of which sums legally due thereunder must be paid for work in progress and carried to completion, (1) for sanctioned works already done and for establishment and labour already employed; (2) for stores, stationery and other supplies already bought or used, and for printing, advertising and other contingent charges already incurred; (3) on account of interest and repayment of loans which became due during 1893-94 and previous years, but which still remain unpaid; (4) adjustment of inter-departmental charges for 1893-94 and previous years; (5) towards completion of works still in progress up to the limits of the grants already sanctioned; and (6) payments on account of pensions and gratuities which became due in 1893-94, but which were not drawn by the pensioners on account of illness or other causes."

The following return was read and *recorded* :—

Return of fires at Pinjrapol 1st Lane, Gilder Street, Bhuleshwar Road, and DeLisle Road (Union Mills) forwarded with the Commissioner's Memorandum No. 28035, dated the 28th March 1894.*

The following statement† was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes, for the week ending 1st April 1894.

BOMBAY, 11*th April* 1894.

AT the Meeting of the Standing Committee, held this day, there were present :—

G. W. ROUGHTON, Esq., *Chairman*;

BHALCHANDRA KRISHNA BHATAWADEKAR, Esq., L.M.; E. B. CARROLL, Esq., M.I.C.E; COWASJI HORMUSJI, Esq., C.C.M.C; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NAROTUMDAS, Esq.; THE HON'BLE MR. JAVERILAL UMIASHUNKUR YAJNIK; KAIKHOSRO N. KABRAJI, Esq.; K. M. SHROFF, Esq.; S. REBSCH, Esq., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, Esq., L. M. & S.; R. H. VINCENT, Esq., C.I.E.

H. A. ACWORTH, Esq., I.C.S., Commissioner; the EXECUTIVE ENGINEER; the HEALTH OFFICER; and the SECRETARY.

The minutes of the Meeting held on the 4th instant were signed.

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* *See* Appendix C. † *See* Apppendix B.

1. The seal of the Corporation was affixed to the following :—(1) To deed of contract with Messrs. John Fleming & Co., for the supply of 700 casks Portland Cement. (2) ditto with Messrs. Walsh, Lovett & Co., for the supply of eight sweeping and two scraping machines. (3). ditto with Messrs. Littlewood, Pallonji & Co., for widening the embankments on the Tansa Duct near the Bassein creek bridges, Kesheli. (4) ditto with Messrs. Garlick & Co., for covering floor of vaults under filters, at Malabar Hill Reservoir, with Indian Patent Stone. (5) ditto with Mr. Ardasir Framji for repairing the embankment over the Tulsi main near Bandora.

The seal was affixed to 60 new debentures of the 1st instalment of 23¼ lakhs Loan for the construction of the Drainage and Water Works, Roads and other works, Nos. 1598 to 1657 of Rs. 500 each; 2 two sub-divided debentures of the Tansa water works loan Nos. 28893 and 28894, for Rs. 500 each; 2 ditto of the Municipal Building Loan, Nos. 881-899 and 900, for Rs. 9,500 and Rs. 500 respectively.

No. 378. *Resolved*: "That as applied for by the Commissioner, in his memoranda Nos. 497, 498, 507, and 508, dated 6th instant, and No. 559, 560 and 561, dated 7th idem, sanction be given, under section 351 (2) of the Municipal Act, to the removal of the following structures built without permission :—"

Names of Owners.		Where.
Mr. Abdul Rahiman Jan Mahomed.	Building	at New Bengalpura Street.
Hadji Karim Hadji Mahomed. ...	„	at Currey Road.
Mr. Husein Hadji Arabi.....	„	at Nos. 83-85, Naron Dhuru Street.
Mr. Abdul Hussen Heptula Resimwala.	„	at Nos. 105-111 1-11, First Duncan Road cross lane.
Mr. Damji Govind Bhandari	„	at No. 499 A, Lady Jamsetji Road, near Sorab Woollen Mill.
Mr. Vithaldas Ramdas.....	„	at Girgam Back Road.
Mr. Kharsetji Dorabji.....	„	at No. 26, Gunpowder Road.

No. 379. *Resolved*: "That, as applied for by the Commissioner, in his memorandum, No. 891, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

Resolved: "That the following be *recorded* :—Letters
No. 380. Nos. 624 and 733, dated 7th and 9th instant, from the Commissioner, reporting with reference to the Committee's Resolution No. 7202, dated 22nd October 1890, the sale of the right of occupancy of stalls Nos. 50 and 2, in the Erskine Road Mutton Market, for Rs. 36 and Rs. 40, respectively, per quarter."

It was agreed that the consideration of the following be postponed :—Memorandum No. 699, dated 9th instant, from the Commissioner, forwarding report on the health of the City in the weeks of the 1st quarter of 1894, comprising a period from 26th December 1893 to the week ending 20th March 1894.

Resolved: "That, as applied for by the Commissioner,
No. 382. in his memorandum No. 562, dated 7th instant, sanction be given to the transfer of Rs. 295, from Savings in Conservancy Branch, Section I, Superintendence and Inspection, VII, Rent of temporary Quarters for bigaries—during the erection of new chawls, to Account and Expenditure Audit Establishment, I, Establishment to meet the cost of acting allowances for nineteen days of March 1894, payable to the officers appointed to act during the absence of the Chief Accountant on privilege leave."

Resolved: "That, as applied for by the Commis-
No. 383. sioner, in his letter No. 521, dated 6th instant, sanction be given to the continuance of the present arrangement of paying the Head Keeper, Victoria Gardens, house rent of Rs. 25 a month, to the debit of the contingent grant for the Gardens for 1894-95."

Considered, letter No. 625, dated 7th instant, from the Commissioner, to the Secretary, as under :—

SIR,—With reference to the Resolution of the Corporation, No. 2930, dated 15th June 1891, fixing the amount of security to be given by Municipal employés, I have the honor to state that the Executive Engineer reports that Inspectors of Roads and Buildings have equally responsible duties to perform, and recommends that the Inspectors of Buildings be required also to furnish

the same amount of security as that given by the Inspectors of Roads, *viz.*, Rs. 1,500. He further states that it has been found neccessary in the interest of service, to occasionally transfer Inspectors of Roads to the Building Branch and those of the Building Branch to the Road Branch, and that it is very desirable that all the Inspectors should be required to give security. Under the circumstances I request the Standing Committee to recommend the Corporation to fix under Section 81 (*a*) of the Municipal Act, the amount of security to be given by the Inspectors of Buildings at Rs. 1,500.—I have &c.,

H. A. ACWORTH, Commissioner.

Resolved: "That, as applied for by the Commissioner, in his letter No. 625, dated 7th instant, the Corporation be recommended to fix, under Section 81 (*a*) of the Municipal Act, the amount of security to be given by the Inspectors of Buildings at Rs. 1,500.

No. 384.

"That the security to be so furnished be either deposit of cash or public securities or surety bonds from holders of immoveable property in Bombay, or the guarantee of a company or association existing for the purpose of giving such guarantee."

Considered the following :—

Recovery of Taxes from the Superior Lessor.

That a Sub-Committee consisting of G. W. Roughton, Esq., the Hon'ble Mr. Javerilal U. Yajnik, the Hon'ble Mr. R. G. Oxenham, and K. M. Shroff, Esq., be appointed to consider and report on the question of the filing of the suit referred to in the Commissioner's letter to the Secretary, No. 23570, dated 2nd instant.

The Sub-Committee appointed as per margin, on the 7th Feb. 1894, beg to report that they are of opinion that the Commissioner should be requested to consult the Solicitors, as to whether, having regard to the provisions of Section 146 (*b*) of the Municipal Act, and the facts as set forth in the papers submitted to the Sub-Committee, the property taxes referred to in his letter No. 23,570, dated 2nd instant, cannot be recovered from the representatives of the estate of the late Mr. Byramjee Jeejeebhoy, as the superior lessor under the above Section ; and, if so, what steps, the solicitors recommend, should be taken for the recovery of the amount in question.

4th April 1894.

Resolved : "That the report of the Sub-Committee on the question of the filing of a suit against the estate of Mr. Byramjee Jeejeebhoy be approved and adopted, and that the Commissioner be

No. 385.

requested to consult the Solicitors, as therein recommended."

Proposed by Cowasji Hormusji, Esq., seconded by K. M. Shroff, Esq.—

No. 386. "That the corrected report of the Health Officer, for the Fourth Quarter of 1893, be forwarded to the Corporation, with reference to their Resolution, No. 12735, of the 26th February 1894."

Amendment proposed by Kaikhosro N. Kabraji, Esq,. seconded by Accacio G. Viegas, Esq.—

"That the attention of the Commissioner be drawn to the last paragraph of the report and that he be asked to report on that para."

Withdrawn.

The original motion was *Carried.*

No. 387. *Resolved*: "That the following be forwarded to the Commissioner for remarks:—Petition, dated 6th instant, from Messrs. Hormasji Shapurji Katrak, Bomanji Bhiccaji Cooper, and others, complaining of the alleged nuisance caused by the open side drains near the Framji Cowasji Fire Temple, at Karelwadi."

No. 388. *Resolved*: "That in reply to his petition, dated 27th February last, Mr. Naronji Virji be informed that the Assessor and Collector reports that the bill referred to by the petitioner was presented to him on the 9th October last, and as it was not paid by the 29th November, notice of demand was served on his servant. When the petitioner returned to Bombay, he was requested, several times, to pay the bill, but as he did not pay, application was made to cut off the water connection. The Assessor shows, moreover, that petitioner is in the habit of delaying the payment of Municipal taxes."

Read letter No. 741, dated 9th instant, from the Commissioner, to the Secretary, as under :—

SIR,—On the 5th June 1893, the Corporation sanctioned under their Resolution No 2144, three Janitors at Rs. 12 each, for day duty, at the three main entrances to the Municipal buildings, but

this establishment was disallowed by the Standing Committee when the Budget for 1894-95 was considered, and was not passed by the Corporation. The Executive Engineer, who is in charge of the building, has several times remonstrated at the entrances being thus left totally unguarded, and open, to any vagabond who may be on the look-out for portable property, and I quite agree with him. I trust the Standing Committee and Corporation will now reconsider their last Resolution and see their way to sanctioning the small charge of Rs. 36 per mensem to meet a precaution, which seems so obviously required in a building of this magnitude, full of removeable fittings, which might be easily carried off.—I have &c.,

H. A. ACWORTH, Commissioner.

Proposed by K. M. Shroff, Esq., seconded by R. H. Vincent, Esq.—

No. 389. "That letter No. 741, dated 9th instant, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the employment of three Janitors at Rs. 12 each per mensem, for day duty, at the three main entrances to the Municipal Offices. The cost for the current year to be debited to surplus cash balance."

Carried by 7 votes against 4 votes.

No.390. *Resolved*: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 455, dated 5th instant, sanction be given, under the terms of section 185 of the Municipal Act, to his compounding with keepers of Commission Stables as per following statement, for the payment, during the current year, of lump sums in lieu of the taxes which they would otherwise be liable to pay under Section 180 of the Act. That any dealer, having stables in which horses are kept for sale on commission or otherwise, be charged in the same way, on the principles laid down in the Commissioner's letter to the Secretary, No 17581, dated 15th November 1890, and as sanctioned by the Committee's Resolution, No. 8405, dated 19th idem."

COMMISSION STABLES.

Statement of Compounded Tax.

Pro. No.	Ward No.	Names of Stable Keepers.	Total Horses allowing 84 sqr. feet per horse.	Total amount of tax to be levied 1894-95. at 8 as. per horse, per year.
			Rs.	Rs. A.
1	E 3099 to 3112	Umar Jamal Vayani.... ...	770	385 0
2	E 3113 to 3130	Do.	729	364 8
3	E 3229	Karimkhan Daryakhan ...	16	8 0
4	E 3230	Gulam Nabi	16	8 0
5	E 3265 to 3281	Essa bin Khalifa	192	96 0
6	E 3283 to 3293	Do.	162	81 0
7	E 3319 to 3321	Haji Essa bin Kartas ...	372	186 0
8	3325 to 3327			
9	E 3839 to 3842	Ali bin Umar	516	258 0
	3754 (2A) 3836 (1) 3837 (1)	Abdulla Rajak bin Kartas ...	103	51 8

The further consideration of the following notice of motion by G. W. Roughton, Esq., was postponed until the Commissioner has had an opportunity of consulting the Municipal Solicitors on the subject.

"That the Committee's Resolution, No. 13977, dated 20th March last, be rescinded or modified."

Resolved: "That the following be *recorded*:—Memorandum No. 413, dated 5th instant, from the Commissioner, reporting, with reference to the Standing Committee's Resolution, No. 4484, dated 3rd October 1888, the following transfers to the Municipal General Fund Pass Book, on the 29th ultimo, *viz.*, (*a*) of Rs. 2,498-14-0, from the New Sanitary Works Loan Deposit, Account No. 1 (44 lakhs); (*b*) of Rs. 1,997-8-0, from the Miscellaneous Works Loan of 1888-89, (10,08,500) Deposit Account; (*c*) of Rs. 5,096-12-1, from the 4½ lakhs Loan for Fire Brigade Quarters and Stations Deposit Account; (*d*) of 3,205-2-6, from the 23½ lakhs Loan for Drainage and other Works Deposit

No. 391.

Account; (*e*) of Rs. 1,498-2-0, from the Surplus Cash Deposit Account. Also reporting with reference to the Committee's Resolution, No. 5620, dated 9th January 1889, the following transfers on the 31st idem, *viz.*, (*c*) from the 4½ lakhs Loan for Fire Brigade Quarters and Stations Deposit Account, to the Surplus Cash Deposit Account 4 per cent. Debentures for Rs. 87,000; (*d*) from the 23¼ lakhs Loan for Drainage and other Works Deposit Account, to the Surplus Cash Deposit Account, 4 per cent. Government Paper for Rs. 2,70,000; (*e*) from the Surplus Cash Deposit Account, to the worn out mains Renewal Fund Deposit Account 5 per cent. Debentures, for Rs. 97,500, from ditto, to the Municipal Building Fire Insurance Fund Deposit Account 5 per cent. Debentures for Rs. 3,000, from ditto, to the Miscellaneous Works Loan of 1888-89 (10,08,500) Deposit Account 5 per cent. Debentures, for Rs. 2,50,000 from ditto, to the net Premia, &c., on different Municipal Loans Deposit Account 5 per cent. Debentures for Rs. 20,000. Total Rs. 3,70,000; (*f*) from the 27 lakhs Drainage and Water Works Loan, to the Surplus Cash Deposit Account 5 per cent. Debentures for Rs. 1,500; (*g*) from the 8 lakhs Municipal Building Loan, to the Surplus Cash Deposit account 5 per cent. Debentures for Rs. 9,500."*

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* The Chief Accountant reports to the Commissioner that the balances remaining to the credit of the above deposit account, after effecting the transfers now reported, stand as under:—

(*a*) In 4 per cent. Government Paper for .....Rs. 4,74,000=Rs.				4,63,914	14 5
(*b*) In 4 per cent. Government Paper for..... ..... Rs. 1,00,000=Rs.	99,625				
In 5 per cent. Municipal Debentures for.....Rs. 2,50,000=Rs.	2,50,000				
			Rs.	3,49,625	0 0
(*c*) In 4 per cent. Municipal Debentures for .....Rs. 74,000=Rs.	74,000	0 0			
In 4 per cent. Government Paper for.....Rs. 1,88,000=Rs.	1,97,987	8 0			
			Rs.	2,71,987	8 0
(*d*) In 4 per cent. Government Paper for.....Rs. 5,88,000=			Rs.	6,12,169	13 6
(*e*) In 5 per cent. Municipal Debentures .....Rs. 18,97,000=Rs.	18,97,000	0 0			
In 4 per cent. Municipal Debentures for.....Rs. 1,65,000=Rs.	1,65,000	0 0			
In 4 per cent. Government Paper for .....Rs. 3,63,000=Rs.	3,78,592	3 0			
			Rs.	24,40,592	3 0
(*f*) In 5 per cent. Municipal Debentures for.....Rs. 46,500=			Rs.	46,500	0 0
(*g*) In 5 per cent. Municipal Debentures for .....Rs. 1,33,500=			Rs.	1,33,500	0 0

No. 392. *Resolved :* "That a sub-committee consisting of the *Chairman, Mr. Rebsch,* Mr. Carroll, Mr. *Bhalchandra K. Bhatawadeker,* and the *Hon'ble Mr. Javerilal U. Yajnik,* be appointed to *consider and report on letter* No. 27781, dated 20th ultimo, from the Commissioner, on the subject of the construction of filter beds at the Malabar Hill Reservoir,"

No. 393. *Resolved :* "That, as applied for by the Commissioner, in his letter No. 729, dated 9th instant, sanction be given to the filing of a suit in the Court of Small Causes against Nawab Khan Khanam Bahadur, for the recovery of Rs. 37-0-6, on account of special Halalkhor tax due by him."

No. 394. *Resolved :* "That the following be *recorded*:—Letter No. 739, dated 9th instant, from the Commissioner to the Secretary, reporting that he has accepted the tender of Mr. Mancherji Kavasji Gazdar, the only one received, for the construction of a temporary chawl for the Health Department and Market bigaries, at a cost of Rs. 2,753-11-10. The amount to be met out of the grant sanctioned by the Corporation for the same."

No. 395. *Resolved* : "That the following be *recorded* :—Letter No. 61, dated 2nd instant, from the Commissioner, reporting that he has sanctioned the purchase from the Superintendent of the House of Correction, of 1500 yards of coir shade matting for the Victoria Gardens Ferneries, at the rate of Rs 0-5-9 per yard, total cost Rs. 539-1-0."

No. 396. *Resolved :* "That the following be *recorded* :—Memorandum from the Commissioner, No. 172, dated 3rd instant, reporting that as Mr. Parashram Gunooji was not able to take up the right himself of collecting squatters' fees at Pedder Market, he has taken a partner, Mr. Haridas Oodowji ; that both of them have signed the agreement and paid the requisite deposit in their joint names, and that accordingly the name of Mr. Haridas has been added in the agreement for the collection of the fees."

Resolved : "That, as applied for by the Commissioner, in his letter No. 301, dated this day, and with reference to the Committee's Resolution, No. 12214, dated 14th February 1894, sanction be now given under the terms of section 10 of Act VIII of 1894, Government of India, (the Indian Tariff Act) as per margin, to the addition of 5 % import duty being added to the amount of bills for articles supplied under the terms of his contract, by Mr. Hasanali Abdulali, for the supply of stationery and drawing materials, during the year 1894-95."

No. 397.

10. In the event of any duty of Customs or excise on any article being imposed, increased, decreased or remitted after the making of any contract for the sale of such article without stipulation as to the payment of duty where duty was not chargeable at the time of the making of the contract or for the sale of such article duty paid, where duty was chargeable at that time.

When Contracts have been entered into amount of increased or decreased duty to be added or deducted.

(*a*) if such imposition or increase so takes effect that the duty or increased duty, as the case may be, is paid, the seller may add so much to the contract price as will be equivalent to the duty or increase of duty, and he shall be entitled to be paid and to sue for and recover such addition, and

(*b*) if such decrease or remission so takes effect that the decreased duty only or no duty, as the case may be, is paid, the purchaser may deduct so much from the contract price as will be equivalent to the decrease of duty or remitted duty, and he shall not be liable to pay or be sued for or in respect of such deduction.

Considered the following :—

Repair of Retaining Wall, Walkeshwar Road.

4th April 1894.

The Sub-Committee appointed by the Standing Committee on 20th September 1893, as per margin, beg to report that having reconsidered the proposals contained in their report, dated 18th October 1893, they now recommend for adoption the proposal made by the Commissioner, in his letter to the Secretary, No. 28158, dated 29th March 1894, namely, the rebuilding of the retaining wall and the improvement of the line of the roadway, as shown within blue lines on tracing marked No. 2, attached hereto at a present cost of Rs. 19,353 only.

"That the following Sub-Committee be appointed to report on the proposals for the repair of the retaining wall of Walkeshwar Road:—Mr. Roughton, Chairman, Mr. Bhalchandra R. Bhatawadeker, Mr. Carroll, the Honorable Mr. Javerilal U. Yajnik.

Mr. Acworth's letter is appended.

G. W. ROUGHTON, *Chairman*; BHALCHUNDRA K. BHATAWADEKER; JAVERILAL U. YAJNIK; E. B. CARROLL.

No. 28158 OF 1893-94. BOMBAY, *29th March* 1894.

TO THE MUNICIPAL SECRETARY.

SIR,—In continuation of my No. 24057 of 5th February, I have the honour to say that a portion of the retaining wall of Walkeshwar Road, shown on the tracing herewith sent, was washed away in 1893, and I have sanctioned its being re-built at a cost of Rs. 1,846,

out of the road repair grant. As the work must be done before the monsoon, I beg to refer the Standing Committee to my letter No. 24057 of 5th February 1894, and suggest that the question of re-building the whole retaining wall, where required, at a cost of Rs. 19,353, according to Mr. Marzban's fourth or blue line scheme may be taken up. The alternative shown in red lines on the tracing is not now open to us, as building has been sanctioned on it under the circumstances explained in my letter above referred to. But I think the blue line has distinct advantages, inasmuch as the purchase of land on the west, the price of which is a very uncertain element, is reduced to a minimum, and moreover it will be needless to acquire land on that side otherwise than gradually, as circumstances admit and funds are available, whereas the red line scheme involves the taking up at once of all the land required.—I have &c., H. A. ACWORTH.

No. 398. *Resolved* : "That the Report of the Sub-Committee appointed on the 20th September 1893, be approved and adopted, and that the Corporation be recommended to sanction the re-building of the retaining wall of the Walkeshwar Road, Chaopati, according to the blue lines on tracing marked No. 2 dated this day, forwarded therewith, and filed in Supplement to Minute Books, marked "A." at a present cost of Rs. 19,353 only."

The following return was read and *recorded*:—

Return of fires at Clive Street, Mandvi and Moogbhat, Girgam, forwarded with Commissioner's memorandum No. 258, dated 3rd April 1894.*

The following statement† was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 8th April 1894.

No. 399. *Resolved:* "That the report of the Sub-Committee on the question of providing additional establishment to prevent frauds in obtaining refunds on Town Duty be printed and brought on for consideration at the next Meeting."

The Commissioner asked the opinion of the Committee as to a private offer he had received for the raising of the 2nd Instalment of Rs. 8,00,000, of the 23¼ lakhs Loan (see confidential file of papers kept by the Secretary).

* *See* Appendix C. † *See* Appendix B.

BOMBAY, 18*th April* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M. ; E. B. CARROLL, ESQ., M.I.C.E. ; COWASJEE HORMUSJEE, ESQ., G.G.M.C. ; THE HON'BLE MR. FAZULBHOY VISRAM ; HURKISONDAS NURROTUMDAS, ESQ. ; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK ; KAIKHOSRO N. KABRAJEE, ESQ. ; K. M. SHROFF, ESQ. ; S. REBSCH, ESQ., ASSO. M.I.C.E. ; ACCACIO G. VIEGAS, ESQ., L.M. & S. ; R. H. VINCENT, ESQ., C.I.E.

The EXECUTIVE ENGINEER ; The WATER ENGINEER ; and the SECRETARY.

The minutes of the Meeting held on the 11th instant, were signed.

The seal of the Corporation was affixed to deed of contract (in duplicate) with Messrs. Mistri, Bhedwar, Vachaghandy & Co., for works in Engine house, Boiler house, Coal store, &c., at the air compressor station, for the sewerage of Colaba.

The seal was also affixed to (1) 378 new debentures of the first instalment of 13 lakhs of the 23¼ Lakhs 4 per cent. Loan for the construction of Drainage and Water Works, Roads and other works Nos. 149-50 to 753-54, 1658-59 to 1756-57, and 2158-59 to 2206-7 of Rs. 1,000 each, and (2) 36 Ditto Ditto Nos. 138 to 148 and Nos. 2208 to 2232, of Rs. 500 each.

No. 735.

Resolved : "That, as applied for by the Commissioner, in his memoranda Nos. 961, 962 and 963, dated 12th instant, sanction be given under section 351 (2) of the Municipal Act, to the removal of the following structures built without permission :—

Names of Owners.	Where.
Mr. KHURSETJI DADABHAI BHAONAGRI.	Building at No. 68, Gilder Street.
Mr. KESHEO RAGHUNATH	Privy at Warli, Koliwada.
Mr. ESSOOF ALI MUSAJI	Building at No. 100, Tank Street.

Resolved: "That, as applied for by the Commissioner, in his memorandum No. 1345, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith.

No. 736.

Read Letter No. 1005, dated 12th instant, from the Commissioner, to the Secretary, as under :—

SIR,—With a view to make a further thorough trial, for a year, of the incandescent gas lights, I propose to provide 60 new wind-proof lanterns impervious to the passage of insects, and to provide each burner with such an arrangement that the lamps may be lighted from outside without opening the lanterns. The cost of the proposed alterations will be as under :—

60 storm proof lanterns Rs. 25 6 0 each	Rs.	1522·50
60 new cocks with climbing flame at Rs. 4 each	„	240
60 lamp holders at Rs. 2 each	„	120
Total Rs.		1,883

The above work is very necessary to insure a fair trial.

I have the honour therefore to request the Standing Committee to recommend the Corporation to sanction the expenditure out of Surplus Cash Balance, amounting to about Rs. 3½ lakhs. There is a sufficient saving in the gas lighting grant for the year 1893-94, but it has now lapsed and forms part of the Surplus Cash Balance. I have authorised in anticipation of sanction to the grant the purchase of the lanterns, &c., from Mr. Mahlar, the agent, of the Incandescent Gas Lighting Company, who is immediately proceeding to Europe. Had I not done so the trial could not have been begun with the monsoon.—I have, &c.,

H. A. ACWORTH, Commissioner.

Proposed by A. G. Viegas, Esq., seconded by Bhalchandra K. Bhatawadekar, Esq .—

1. "That letter No. 1005, dated 12th instant, from the Commissioner to the Secretary, be forwarded to the Corporation with the recommendation that sanction be given to the expenditure of Rs. 1,883, from Surplus Cash Balance, to provide for the cost of further thorough trial for one year, of incandescent gas lights."

2. "That the Commissioner's attention be drawn to the standing order of the Corporation No. 1281 of the 30th April 1891, regarding expenditure without previous sanction."

Amendment proposed by R. H. Vincent, Esq., seconded by the Hon'ble Mr. Fazulbhoy Visram—

"That the second para. of the motion, proposed by Mr. Viegas, be omitted."

On a division, there were 5 votes *for* and 4 votes *against* the amendment, which was *carried*.

The first para. of the original motion was *carried* by 5 votes, against 4 votes; and as thus passed, is as follows :—

No. 737. "That, letter No. 1005, dated 12th instant, from the Commissioner, to the Secretary, be forwarded to the Corporation, with the recommendation, that sanction be given to the expenditure of Rs. 1,883, from Surplus Cash Balance, to provide for cost of further thorough trial for one year, of incandescent gas lights."

No. 738. *Resolved:* "That, as applied for by the Commissioner, in his letter No. 1004, dated 12th instant, and with reference to their Resolution No. 3452, dated 10th July 1893, the Corporation be recommended to sanction the expenditure of Rs. 243 per month (Rs. 2,916 per annum) from Surplus Cash Balance, to provide for the cost, staff, coal and maintenance, during 1894-95, of the New Steam Engine purchased for the flushing of gullies."

No. 739. *Resolved* : "That, as applied for by the Commissioner, in his letter No. 1091, dated 13th instant, sanction be given to the conveyance allowance of Rs. 30 per mensem, attached to the post of Head Surveyor, Water Works Department, being paid to Mr. Ramchandra B. Bhandari, Inspector of the work of covering the Storage Basin at Bhandarwada Reservoir, who has been appointed to perform the duty of Head Surveyor, in addition to his own duties, during the absence of the Assistant Engineer, on privilege leave for 2 months."

Read letter No. 128, dated 10th instant, from the Chief Accountant, to the Commissioner, as under:—

Sir,—With reference to the amount of Rs. 2,000-7-0, reserved in the current year's Budget for sundry pensions, gratuities, &c., to be paid during the year, I have the honour to report that the above amount will be exceeded by Rs. 2,671-6-0 by payment of pensions to the persons named in the margin, who have retired, after the Budget Estimate for 1894-95 was prepared.

	Per month.			
Mr. C. J. Hewitt	Rs.	150	0	0
Syed Husein bin Syed Valli	,,	6	8	8
Mr. Jaggonath Vithoba	,,	20	0	0
,, Dadaji Bhanaji	,,	105	0	8
,, G. Moore	,,	45	3	9
,, Kharsedji D. Rana (Not yet sanctioned by the Standing Committee)	,,	62	8	0
	Rs.	389	5	1×12
for the year	,,	4,671	13	0
Less, Amount reserved in the current year's Budget		2,000	7	0
Excess	Rs.	2,671	6	0

2. It will be remembered that in the Budget Estimate submitted by you to the Standing Committee a sum of Rs. 9,674-7-0 was proposed to be reserved for sundry pensions, &c., but that amount was cut down by the Standing Committee to Rs. 2,000-7-0.

3. An additional grant to meet the above excess of Rs. 2,671-6-0 will therefore, be required, and to save going to the Corporation for each payment of pension or gratuity claim, that may be hereafter sanctioned by the Standing Committee under the new rules, perhaps it would be well if the Standing Committee recommended to the Corporation to sanction a further lump sum provision of say Rs. 2,000 or 3,000 to meet all future claims.—I have, &c.,

SORABJI NAVAROJI COOPER, Chief Accountant.

No. 888 of 11*th April* 1894.

Forwarded to the Standing Committee and the Corporation for favour of sanction to a sum of Rs 5,000.—I have, &c.,

H. A. ACWORTH, Commissioner.

Proposed by the Hon'ble Mr. Javerilal U. Yajnik, Esq., seconded by Bhalchandra K. Bhatawadekar, Esq.—

"That, with reference to the Commissioner's Memo. No. 888, dated 11th instant, the Corporation be recommended to sanction the grant of Rs. 2,671-6-0 from Surplus Cash Balance for payment of pensions during 1894-95 as per margin."

No. 740.	Per month			
Mr. C. J. Hewitt	Rs	150	0	0
Syed Husen bin Syed Valli	,,	6	8	8
Mr. Jagannath Vithoba	,,	20	0	0
,, Dadaji Bhanaji	,,	105	0	8
,, G. Moore	,,	45	3	9
,, Kharshedji D. Rana (Not yet sanctioned by the Standing Committee)	,,	62	8	0
	Rs.	389	5	1×12
for the year	,,	4,671	13	0
Less, amount received in the current year's Budget		2,000	7	0
Excess	Rs.	2,671	6	0

Carried.

Read No. 804, dated 10th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to report that I have been obliged to come to the conclusion that the reduction from Rs. 11 to Rs. 9 per mensem, made at my recommendation in the pay of the market bigaries for 1894-95 cannot be maintained. I made it on the basis of the pay of the Health Department scavengers but I think on further consideration that the work which the market bigaries have to do is such that we cannot retain the present men and could not get others on less than Rs. 11. The great difference is that while the Health Department bigaries begin work at 5 A.M. like the market bigaries, they leave off work about 5 P.M., having had an intermission, of 3 hours, while the market bigaries with the same intermission, work till 10 or 11 P.M. The latter, moreover, never get a day or half a day off as the others do. For these reasons I recommend that their pay be restored to the old figure of Rs. 11 per mensem, which for 74 men will cause an increase of Rs. 148 per month, which can be met from savings in the Feed of Bullocks, Section 6, Markets and Slaughter Houses.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : "That, letter, No. 804, of 10th instant, from the Commissioner to the Secretary, be forwarded to the Corporation with the recommendation that sanction be given to the pay of 74 market bigaries being continued at Rs. 11 per mensem each as heretofore.

No. 741.

"That the difference between the budgetted amount for the current year at Rs. 9 each and the amount of Rs. 11 each, Rs. 148 per month or Rs. 1,776 per annum, be paid from savings in the grant for feed of Bullocks, Section 6, Markets and Slaughter Houses for the current year."

Read letter No. 371, dated 10th instant, from the Municipal Secretary to the Chairman, Standing Committee, as under :—

SIR,—I have the honour to report with reference to the Standing Committee's Resolution No. 14094, dated 28th ultimo, that on the 16th February 1891, the Corporation passed the following resolution :—

"That in recording letter No. 19719, dated 10th December 1890, from the Commissioner on the subject of land required for the Leper Asylum at Matunga, the Corporation declare that they have nothing to do with the matter."

2. On the 24th January 1894 the Standing Committee passed the following resolution :—

"That the following be *recorded* :—Letter No. 22524, dated 22nd instant, from the Commissioner, reporting as required by Section 69 (*d*) of the Municipal Act, that he has ordered stores of the value of Rs. 1,187-14-2 to be purchased for the Homeless Leper Asylum from the Medical Stores Department."

Again on the 7th February last, the following motion was passed :—

"That the following papers be *recorded*, on the clear understanding that the Leper Home is not a Municipal institution.

Letters Nos. 22779 and 23852, dated 25th ultimo and 6th instant, from the Commissioner, reporting, under section 69 (*d*) of the Municipal Act, that he has sanctioned the purchase, from Mr. Dossabhai Framjee Cowasjee Dubash, Contractor for the Homeless Leper Asylum, of articles for the use of the Asylum, as per list submitted, amounting to Rs. 3,000."—I have, &c.,

H. W. BARROW, Municipal Secretary.

No. 742. *Resolved* : "That the following be *recorded* :—Letter No. 371, dated 10th instant, from the Municipal Secretary with reference to Committee's Resolution No. 14094, dated 28th ultimo, regarding the occasions on which contracts in connection with the Leper Asylum at Matunga have been reported."

Read letter No. 1090, dated 13th instant, from the Commissioner to the Secretary as under :—

SIR,—With reference to the Resolution of the Corporation No. 2930, dated 15th June 1891, fixing the amount of security to be given by Municipal officers and servants, I have the honour to state that the Chief Accountant reports that it is desirable to obtain security from the senior book keeper on Rs. 75 as he has to write the Day book, prepare receipts, &c., and during the temporary absence of the receiving clerk and of the Cashier to receive collection, to make payments, and to take collection to the Bank. All other employés in the cash branch furnish security. Under the circumstances I request the Standing Committee to recommend the Corporation to fix, under Section 81 (a) of the Act, the amount of security to be given by him at Rs. 3,000.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved: "That, as applied for by the Commissioner on his letter No. 1090, dated 13th instant, the Corporation be recommended to fix, under Section 81 (a) of the Municipal Act, the amount of security to be given by the Senior Book-keeper, Chief Accountant's Office, at Rs. 3,000.

No. 743.

"That the security to be so furnished be either deposit of cash or public securities or surety bonds from holders of immoveable property in Bombay or the guarantee of a Company or Association existing for the purpose of giving such guarantee."

Resolved: "That the following be *recorded* :—Letter No. 1003, dated 12th instant, from the Commissioner to the Secretary reporting that he has sanctioned the purchase of stones for pitching on siphon No. 5 at Tansa, from one Barkia Sadoo Patel, at Rs. 7 per 100 cubic feet. The total cost Rs. 823-12-2, to be met from the grant of Rs. 4,600 for dry rubble pitching on siphon No. 5, provided in the revised estimates for the Tansa Water Works."

No. 744.

The further consideration of the following notice of motion by Mr. G. W. Roughton was postponed :—

"That the Committee's Resolution No. 13977, dated 20th March 1894, be rescinded or modified."

The consideration of Report of the Sub-Committee regarding the prevention of frauds in the matter of claims for refunds of Town Duties was postponed till next week."

Resolved: "That the following be printed and circulated and brought on for consideration at the next meeting :—Letter from the Commissioner to the Secretary No. 1113, dated 16th instant, reporting, with reference to the Committee's Resolution No. 2439, dated 14th June 1893, on Government letter No. 1467, General Department, dated 27th April 1893, regarding the Accountant General's criticisms on the financial system of the Municipality : forwarding report No. 20, dated 3rd instant, from the Chief Accountant."

No. 745.

Resolved: "That, as applied for by the Commissioner in his letter No. 1157, dated 16th instant, and with reference to the Committee's Resolutions Nos. 12238, 12239 and 12240, dated 14th February last, sanction be now given under the terms of Section 10 of Act VIII of 1894, Government of India (The Indian Tariff Act) as per margin to the addition of 5 per cent. import duty being added to the amount of bills for articles supplied under the terms of their contracts by Messrs. Soolemanji Moola Abdulali & Co. for the supply of Petty Stores, Hardware and Timber during the year 1894-95."

No. 746.

10. In the event of any duty of customs or excise on any article being imposed, increased, decreased or remitted after the making any contract for the sale of such article without stipulation as to the payment of duty where duty was not chargeable at the time of the making of the contractor for the sale of such article duty paid, where duty was chargeable at that time.

When Contracts have been entered into amount of increased or decreased duty to be added or deducted.

(*a*) If such imposition or increase so takes effect that the duty or increased duty, as the case may be, is paid, the seller may add so much to the contract price as will be equivalent to the duty, or increase of duty and he shall be entitled, to be paid and to sue for and recover such addition, and

(*b*) If such decrease or remission so takes effect that the decreased duty only or no duty, as the case may be, is paid, the purchaser may deduct so much from the contract price as will be equivalent to the decrease of duty or remitted duty, and he shall not be liable to pay or be sued for or in respect of such deduction.

Considered the following :—

Letter No. 27189, dated 14th March 1894 from the Commissioner to the Secretary as under :—

SIR,—With reference to Standing Committee's Resolution No. 13214 of the 7th instant, I have the honor to forward herewith a copy of Health Officer's No. 36592 of 12th March 1894, which explains the excess consumption of water at the Health Departments Stables at Paltan Roads, the night soil Depots at Carnac and DeLisle Roads, the Cochin Street latrines and chawls and the Bhungy's chawls in Cursetjee Suklaji Street.

The extra consumption of water at the Bandora Slaughter Houses is attributed by the Superintendent of Markets and the Water Engineer partly to some cases of bursts of pipes and partly to the high pressure and a constant supply. The Superintendent of Markets adds that no extra water was consumed beyond what was necessarily required for washing and cleaning them (the Slaughter Houses) thoroughly so as to keep them in a sanitary state. At the Arthur Crawford Market water was used by the Municipal contractor for about a month while the foundation of the new mutton market was being excavated, and the Water Engineer reports that for the months of June, July and August, the meter being damaged the consumption is an assumed quan-

tity based on the previous year's readings. The Water Engineer adds that as the supplies to several other Municipal properties pass through the market meter the quantities in respect of each have to be deducted and this may have operated unfavourably on the market. With respect to the Foras Road Market which was opened in September 1893 there was no provision in the budget for the water supply and there are no previous year's figures with which to compare the consumption of 1893-4.—I have, &c.,

H. A. ACWORTH, Commissioner.

Memorandum No. 36592, dated 12th March 1894, from the Health Officer to the Commissioner as under:—

I can give no explanation of the excess of water at Paltan Road Stables unless it be that the meters are not registering properly.

The increase, however, is probably due to the high pressure at which the water is delivered.

After the introduction of Tansa water the Water Engineer warned me that owing to the great pressure more water would be used. Every possible care is taken at this and all other places where water is used, to prevent waste.

Cochin Street Latrines and Chawls.—There is no separate meter on the Cochin Street latrine pipe, the supply pipe is one for the Bigaries, Chawls and public latrines. The above remarks apply also in this case.

The Carnac Road Night Soil Depôt.—There have been several leaks in the water fittings and no doubt a large quantity of water ran to waste, but I am not prepared to say that this would explain the excess. At a night soil depôt there must, of necessity, be a large consumption. High pressure is probably the cause of the increase.

DeLisle Road Depôt.—The excess at the DeLisle Road night soil depôt is easily explained.

The Depôt was only brought into full working with the beginning of the 4th quarter.

Water must be freely used at this Depôt owing to the flat gradient of the DeLisle Road Sewer.

Halalkhore Chawls at Cursetji Suklaji Street.—The Water Engineer called my attention to the increase in the consumption, and it was decided to reduce the number of taps and the pressure. Eight taps have been removed, and I presume the pressure has been reduced. If there can be such an increase in the consumption of water at places under control and supervision and without any extraordinary reason for increase, what must be the waste in the city? It seems to me that all this proves that too much

water is being supplied to the city. I think both the pressure and the number of head gallons should be reduced. I have issued strict orders to exercise every care over the consumption.

T. S. WEIR, Health Officer.

No. 747. *Resolved* : "That the following be forwarded for the information of the Corporation in continuation of the Committee's Resolution No. 13214, dated 7th March last, and with reference to the Corporation's Resolution No. 13940, dated 19th March 1894 :—

"Letter No. 27189, dated 14th idem, from the Commissioner, on the subject of excess consumption of water for Municipal purposes."

The consideration of letter No. 27130, dated 13th ultimo, from the Commissioner, on the subject of the raising of the Loan of 25¼ lakhs was postponed.

No. 748. *Resolved* : "That the following be *recorded* :—Memorandum No. 1121, dated 16th instant, from the Commissioner, forwarding analyses of water as under :—

Sample of unfiltered water of Tulsi Lake water taken from the settling basin of Malabar Hill Reservoir, on 30th March 1894.

	Parts per million.
Free Ammonia	·01
Albuminoid Ammonia	·18

Sample of partly filtered Tulsi water taken from the distributing basin of the Malabar Hill Reservoir, on 30th March 1894.

	Parts per million.
Free Ammonia	·005
Albuminoid Ammonia	·16

Sample of unfiltered Vehar water obtained from the outlet channel before filteration of the Bhandarwada Reservoir, on the 30th March 1894.

	Parts per million.
Free Ammonia	·005
Albuminoid Ammonia	·10

Sample of filtered Vehar water obtained from filter channel of the Bhandarwada Reservoir, on 30th March 1894.

	Parts per million.
Free Ammonia	·005
Albuminoid Ammonia	·08

Sample of filtered Vehar water obtained from Vehar Filters.

	Parts per million.
Free Ammonia	·03
Albuminoid Ammonia	·06

Sample of unfiltered Tansa water drawn from a hydrant on 27" Main in Arthur Road, on the 30th March 1894.

	Parts per million.
Free Ammonia	·02
Albuminoid Ammonia	·06

The following statement † was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 15th April 1894.

No. 749. *Resolved* : "That, as applied for by the Commissioner in his memorandum No. 1238, of 17th instant, sanction be given under sections 211 and 517 (1) (j) of the Municipal Act, to a suit being filed in the Court of Small Causes against Bai Khatizabai for the recovery of Rs. 151-7-9 being the amount of General Water and Halalkhor taxes and notice fees due by her."

No. 750. *Resolved* : "That the following be *recorded* :—Memorandum No. 1215, of 17th instant, from the Commissioner, reporting the fall, on 20th ultimo, of a portion of the west wall of a 3 storied house, the property of Mr. Hormasji Dhanjibhoy, situated at Gun Carriage Street, Colaba, the total estimated loss was about Rs. 100, and there were no casualties. The wall, which was under repairs at the time, has been since pulled down, and permission to rebuild the same has been given."

No. 751. *Resolved* : "That the following be *recorded* :—Letter No. 1293, dated 17th instant, from the Commissioner, reporting that he has sanctioned the purchase from Messrs. John Fleming and Co., of 6 sets of expanding plugs for blocking drain pipes, 4 smoke testing machines for testing ventilating shafts, 2 drain cleaning apparatus complete, &c., at a total cost of Rs. 793-8-0."

The consideration of letter No. 1295, dated 17th instant, from the Commissioner to the Secretary, asking for a grant of Rs. 7,500, from Surpuls Cash Balance, on account of the advance made to Messrs. Garlick & Co., in connection with the Incinerator for burning refuse was postponed until the next meeting.

† *See* Appendix B.

BOMBAY, 25*th April* 1894.

AT the Meeting of the Standing Committee held this day, there were present:—

G. W. ROUGHTON, Esq., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, Esq., L.M.; E.B. CARROLL, Esq., M.I.C.E.; COWASJEE HORMUSJEE, Esq., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, Esq.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, Esq.; K. M. SHROFF, Esq.; S. REBSCH, Esq., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, Esq., L.M. & S.; R. H. VINCENT, Esq., C.I.E.

H. A. ACWORTH, Esq., I.C.S., Commissioner; the WATER ENGINEER; and the SECRETARY.

The minutes of the Meeting held on the 18th instant, were signed.

The seal of the Corporation was affixed to 2 attested duplicate debentures of the Bombay Municipal Loan, Drainage and Water Works, Markets and Roads, Nos. 772-81 and 782-91, for Rs. 5,000 each, and 1 attested duplictae consolidated debenture of the Sanitary Works Loan, of 1885, Nos. 2006-7, N. N., for Rs. 1,000.

No. 985. *Resolved*: "That, as applied for by the Commissioner, in his memorandum No. 1725, dated 23rd instant, sanction be given, under Section 351 (2) of the Municipal Act, to the removal of the following structure built without permission.

NAME OF OWNER.	WHERE.
Mr. RUSTOMJI D. SETNA	Building at Warli Road."

No. 986. *Resolved*: "That, as applied for by the Commissioner, in his memorandum No. 1942, dated this day, sanction be given to the cutting off of water connections, as per list submitted therewith."

No. 987. The consideration of the following was postponed till next week:—Memorandum No. 1671, dated 21st instant, from the Commissioner to the Secretary, requesting sanction of the Standing

Committee and Corporation, to the writing off of the book value of bullocks of the Health and Market Departments and of a horse of the Fire Brigade, as per lists submitted.

No. 988. *Resolved* : "That, as applied for by the Commissioner, in his letter No. 1491, dated 19th instant, the Corporation be recommended to sanction the purchase, at Rs. 10 per yard, of 23·15 square yards or thereabout of ground, situate at Moogbhat Road, as site for a dust-bin cart, and as shown on the tracing marked "A," dated this day, and filed in supplement to minute books. The cost to be met from Surplus Cash Balance.

"That, subject to such sanction being accorded, sanction be given, under Section 91 (1) of the Municipal Act, to the ground being acquired under the Land Acquisition Act."

No. 989. The consideration of the following was postponed till next week, to enable the Commissioner to give the areas of the 6 plots in question :—Letter No. 1294, dated 17th instant, from the Commissioner to the Secretary, requesting that the Committee will authorise him (the Commissioner) under Section 91 (1) of the Municipal Act, to acquire 6 plots of ground, bounded by red lines on the tracing forwarded. The ground is required for the Matunga Road and its frontages.

Read letter No. 1705, dated 21st instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honor to state that the Executive Engineer reports that in order to enable the workshops to turn out the work required to be done by the different Municipal Departments the following plant and tools are urgently required for use in the Municipal workshops :—(1) one 6 feet face plate lathe, with 13 feet gap bed, complete, with countershaft, tools and spanners ; (2) one radial drilling machine of 8 feet radius with countershaft ; (3) set of 41 twist drills and 4 sockets ; (4) one pipe and bolt screwing machine complete with countershaft.

He further states that as the proprietors of the Ripon Iron Works are now disposing of their machinery, this is a very good opportunity for purchasing machines, Nos. 1 and 2, which they have agreed to sell for Rs. 3,600 and Rs. 1,350, respectively, the price fixed by him. They have not got Articles, Nos. 3 and 4, which he estimates can be purchased for Rs. 550 and Rs. 950, respectively. As there is no budget provision, I request the sanction of the Standing Committee and Corporation to the cost being met out of Surplus Cash Balance, amounting to about 3½ lakhs. I also request the sanction of the Standing Committee to the purchase of articles, Nos. 1 and 2, from the proprietors, Ripon Iron Works. In the list of new works submitted with the budget for 1894-95 I had entered Rs. 9,550 for the purchase of new machinery for the workshops, but the grant was not passed by the Standing Committee, though the urgency of it was fully explained.—I have, &c., H. A. ACWORTH, Commissioner.

No. 990. *Resolved*: "That, as applied for by the Commissioner, in his letter No. 1705, dated 21st instant, the Corporation be recommended to sanction the purchase of the following plant and tools, urgently required for use in the Municipal Workshops :—(1) one six feet face plate lathe with 13 feet gap bed, complete, with countershaft, tools and spanners, Rs. 3,600 ; (2) one radial drilling machine, of 3 feet radius, with countershaft, Rs. 1,350 ; (3) set of 41 twist drills and 4 sockets, Rs. 550 ; (4) one pipe and bolt screwing machine, complete, with countershaft, Rs. 950 ; the total cost, Rs. 6,450, to be met from Surplus Cash Balance.

"That, subject to such sanction being accorded, sanction be given to the purchase of articles (1) and (2) at the above rates, from the proprietors of the Ripon Iron Works, and to the dispensing with the calling for tenders for the supply of these two articles, which would otherwise be necessary, as those are the prices fixed by the Engineer for the two machines, and which the said proprietors are willing to accept."

No. 991. *Resolved* : " That, as applied for by the Commissioner in his memorandum No. 1735, dated 23rd instant, sanction be given to the transfer of Rs. 80 from savings in the grant for public lighting, Section 2, Gas Lighting to General Office Establishment, the winding of and keeping in order munici-

pal clocks, to meet the charge for winding 4 gas pressure gauges, which were not included in the grant."

No. 992. *Resolved*: "That, as applied for by the Commissioner in his letter No. 1295, daed 17th instant, and with reference to their resolution No. 12240, dated 16th February 1893, sanctioning the payment of an advance of Rs. 7,500 to Messrs. Garlick & Co., being the second moiety of the cost of the Incinerator purchased from them, the Corporation be now recommended to sanction the adjustment of that amount to the debit of Surplus Cash Balance."

No. 993. *Resolved*: "That the following be *recorded*:—Letter No. 1246, dated 17th instant, from the Commissioner to the Secretary, reporting the sale of the following rights: (1) of cutting grass from municipal ground at Kurla, area about 60 acres, to Messrs. Suggaji Ramji and Tukaram Daji, during 1894-95, for Rs. 9,000; (2) of cultivating a portion of Pardhan Tank, at Haines Road, lately reclaimed, area about 6,000 square yards, to one Gungaram Suggaji, for 9 months, from 1st July 1894, for Rs. 352."*

The further consideration of the following notice of motion from Mr. G. W. Roughton was postponed :—

"That the Resolution of the Standing Committee, No. 13977, dated 20th ultimo, be rescinded or modified."

No. 995. In accordance with notice, it was proposed by the Honourable Mr. Javerilal U. Yajnik :—

"That the Commissioner be requested to inform the Standing Committee whether the ground at Tank Bandar, lying on the sea-shore, on the east side of the Bandar, is still Municipal property, and used as a burning and burial-ground for the Hindu community generally. If so, what is the area of such ground, and whether the boundary lines of the plot are marked off and fixed, and whether the Port Trustees have any sort of claim over such ground."

The Commissioner stated that he will report on the area of the ground hereafter. In the meantime, he

* Last year sales realised Rs. 10,000 and Rs. 110, respectively.

might mention that the ground is still Municipal property and used for the purposes it is intended for, namely, burning and burial-ground for the bodies of Hindus. The boundaries are marked, and the Port Trust have no claim on the land.

The motion was seconded and *carried*.

Considered the following :—

Prevention of frauds in the matter of claims for refunds of Town Duties.

BOMBAY, *4th April* 1894.

"That the following be referred to a Sub-Committee, consisting of the Chairman, the Hon'ble Mr. Javerilal U. Yajnik, Mr. Roughton, and Mr. K. M. Shroff, for enquiry and report:—Letter No. 20432, dated 5th instant, from the Commissioner, reporting on the prosecutions, which were instituted by the Municipality last year, against persons believed to have committed frauds by obtaining refunds of town duty on false documents. Requesting sanction to the employment of a staff at an annual cost of Rs. 5,424 in order to protect the revenue from similar frauds in future."

The Sub-Committee, appointed by the Standing Committee on the 10th January 1894, as per margin, beg to report as follows :—

The practice according to which refunds are granted on dutiable goods exported from the City has been proved to be faulty at one point where the absence of a Municipal check or audit opens a door for fraud. The system of town duties and refunds has created a class of middlemen of a peculiar character who go by the name of chitty-wallas. It is usual for the importers of dutiable goods to sell their import bills to the latter at a certain discount which represents the risk that the goods covered by them may not be exported at all and the trouble and expense which the chittywallas will incur in obtaining the refund if they are. When goods are exported the export note (which contains particulars as to the character of the goods, marks, counter-marks, &c.) has to be produced at the bunder or Railway station of exportation for verification of its contents with the actual goods brought before the bunder or Railway officials for exportation. The exporter, in the first instance, fills up the export document, which ought to correspond with the actual consignment despatched and with the Railway or Port Trust advices and consignment notes. It is the duty of the Railway or Port Trust officials, as the case may be, to verify them, and on verification to countersign the export document and to sign a certificate on the back of it, which then becomes the voucher that the dutiable goods as described in the export note and certificate have been re-exported and entitles the holder to claim the refund on presentation at the office of the Revenue and Refund Audit Officer. It has been found in practice that there is a serious risk that in the midst of their multifarious duties the function of verifying

export and documents with the Railway or Port Trust notes and with the consignment exported, is not properly performed by the officers concerned. Several cases have come to light for instance in which exports, which have in reality been of non-dutiable articles (*e.g.*, cocoanuts, cardamums, coir, dates), have been described as being dutiable articles (*e.g.*, sugar) and have been certified as such by the railway officials in the goods department and refund fraudulently obtained on them. To what extent the practice has gone on in the past or is going on now, it is impossible to say, for the Municipality possesses no means of ascertaining or checking it. The loss of revenue may have been and may still be very serious, and the Sub-Committee decidedly agree with the Commissioner that a Municipal check or audit ought to be established, and having regard to the extensive facilities for fraud which prevail, they agree with him in the recommendations for establishment which he makes and which, in their opinion, are not beyond what the necessities of the case absolutely require. The Sub-Committee, however, are further of opinion with the Revenue andRefund Audit Officer, that some attempt should be made to bring the chittywallas under Municipal control by licensing them and compelling them to furnish security. Whether this can be done by a by-law of the Corporation, or whether it will require legislation, they are not in a position to say, but the point should be enquired into and the necessary report submitted to the Standing Committee and the Corporation.

G. W. ROUGHTON.
JAVERILAL U. YAJNIK.
COWASJEE HORMUSJEE.
K. M. SHROFF.

No. 996.

Resolved: "That the Report of the Sub-Committee regarding the prevention of frauds in the matter of claims for refunds of Town Duties be approved and adopted, as the report of the Standing Committee, and that the same be forwarded to the Corporation with the recommendation that sanction be given to the employment of following establishment":—

Bunder Audit.

1 Auditor on Rs. 120 a month.
1 Audit Clerk on Rs. 35 a month.

Railway Audit.

2 Auditors on Rs. 110 and Rs. 100 respectively a month.
2 Audit Clerks on Rs. 30 and Rs. 25 each a month.
3 Peons on Rs. 9 each, per month.

"Contingencies, Rs. 5. Total monthly cost, Rs. 452. Annual cost, Rs. 5,424.

"That the monthly cost of the establishment, namely, Rs. 452, be debited during the current year to Surplus Cash Balance."

No. 997. *Resolved*: "That the consideration of the following be postponed till next week:—Letter No. 1113, dated 16th instant, from the Commissioner to the Secretary, reporting, with reference to the Committee's Resolution No. 2439, dated 14th June 1893, on Government letter No. 1467, General Department, dated 27th April 1893, regarding the Accountant General's criticisms on the financial system of the Municipality: forwarding Report No. 20, dated 3rd instant, from the Chief Accountant."

No 998. *Resolved*: "That the consideration of letter No. 27130, dated 13th March last, from the Commissioner to the Secretary, be postponed, and that in the meantime the Commissioner be asked to circulate the letter he has addressed to Government on the subject of the raising of the full amount of the 25¼ Lakhs Loan."

The consideration of the following was postponed till next week:—

Memorandum No. 1541, dated 20th instant, from the Commissioner to the Secretary, reporting certain transfers as required by the Committee's Resolutions Nos. 4484 and 5620, dated 3rd October 1888 and 4th January 1889."

No. 1000. *Resolved*:—"That, as applied for by the Commissioner, in his letter No. 1800, dated 23rd instant, sanction be given to the acceptance by him of the tender of Messrs. Littlewood and Pallonji, the lowest of the 12 tenders received, for the work of covering the storage basin at the Bhandarwada Reservoir, and constructing filters over it, at schedule rates, aggregating Rs. 1,07,309-6-0, *plus* 10 per cent. contingencies, Rs. 10,730-10-0; total cost, Rs. 1,18,040, *plus* Rs. 5,076, for iron work to be supplied by

the Municipality. The cost, Rs. 1,23,116, to be met from the grant of Rs. 1,60,000, sanctioned for the work."

Resolved: "That the following be forwarded to the Commissioner for favour of report :—Letter to the Chairman of the Corporation, dated 16th instant, from Mr. Gangaram Krishnaji, on the subject of the license for his tannery at Munmala Tank Road." No. 1001.

The following return was read and *recorded*:—

Return of fires at Chukla Street, forwarded with Commissioner's Memorundum No. 1097, dated 13th April 1894.*

The following statement† was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes, for the week ending 2nd April 1894.

Resolved: "That with reference to the Commissioner's letter No. 1922, dated 24th instant, to the Secretary, the Standing Committee approve, under Section 407 (*a*) of the Municipal Act, of the levy of stallage fees at the new and old mutton markets, the Arthur Crawford Markets, as per lists A and B submitted with the letter." No. 1003.

Resolved: "That, in reply to their petition to the Chairman, Standing Committee, dated this day, Messrs. Haji Habib Mahomed and others be referred to the Corporation's Resolution No. 919, dated 19th instant, intimating that they have no power to exempt petitioners from payment of the taxes in question. No. 1004.

"That with reference to a similar petition, dated this day, addressed to the Corporation, the Committee beg to refer the Corporation to their Resolution as above.

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* *See* Appendix C. † *See* Appendix B.

BOMBAY, *2nd May* 1894.

At the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman*;

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, ESQ.; K. M. SHROFF, ESQ.; S. REBSCH ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L. M. & S.; R. H. VINCENT ESQ., C.I.E.

H. A. ACWORTH, ESQ., I.C.S., Commissioner; the WATER ENGINEER; and the SECRETARY.

The minutes of the Meeting held on the 25th ultimo, were signed.

A letter was received from Mr. E. B. Carroll, apologizing for not being able to attend the meeting.

The seal of the Corporation was affixed to the following deeds of contract :— (1) With Mr. Mancherji Kavasji Gazdar, for the construction of temporary chawls on Frere Road, for the Health and Market Departments bigaries; (2) with Messrs. John Fleming & Co., for lighting with electricity the Arthur Crawford Markets; (3) with Messrs. Amruta Babaji & Co., for the work of paving footpaths with blue stone, during 1894-95; (4) with Messrs. Dadabhoy Hormasji & Co., for the supply of 250 tons of Powell's Duffryn Cardiff coal and 250 tons of Davison's West Hartley coal; (5) with Messrs. C. Jost & Co., for the supply of sixteen steam roller counters, (6) with Mr. Dhanjibhai Framji for the work of flooring Bassein creek bridges and culverts on Tansa duct between Tansa and Ghatkopar.

The seal was also affixed to 896 new debentures of the 1st instalment of Rs. 13 lakhs, of the 23¼ lakhs 4 per cent. Loan for drainage, Water Works, &c., Nos. 755-56 to 1347-48 and 1758-59 to 1906-7 of Rs. 1,000 each and Nos. 1349 to 1597, 1908 to 2157 and 2233 to 2257 of Rs. 500 each.

No. 1128. *Resolved* : "That, as applied for by the Commissioner, in his memoranda, Nos. 1832, 1833, 1834, 1835, dated 24th ultimo and Nos. 2176 and 2177 dated 28th idem, sanction be given, under section 351 (2) of the Municipal Act, to the removal of the following structures built without permission :—

Names of Owners.	Where.
Mr. Pandoo Mayaji, Manager of the property of Mr. Jeevan Pudma Nakhva	Shed at No. 811, Jail Road, East.
Hadji Esmail Haji Essac ...	„ at Bhaji Pala Cross Lane.
Mr. Lalu Javer	„ at Nos. 144-146, Kika Street.
Mr. Krishna Dhondoo	„ at Gibbs Road Pada.
„ Karim Jan Naikini	„ at Falkland Road Cross Lane.
Bai Sakinabai	„ at Falkland Road Cross Lane."

No. 1129. *Resolved*: "That, as applied for by the Commissioner, in his memorandum No. 2499, dated this day, sanction be given to the cutting off of water connections, as per list submitted therewith."

Considered again the following :—

Statement showing loss by mortality, &c., among the bullocks of the Health Department, during the official quarter ending 28th day of February 1894.

Months.	Number of Bullocks and their Causes of Death.																	Total.	Where Died, &c.							Total.	Casualty percentage per month.	Note.—There were 1979 bullocks at the commencement of the year, that is, on 1st March 1893. Value of these bullocks is Rs. 128,176-12-3 or Rs. 64-12-3 per each bullock.		
	Old age and general debility.	Pluropneumonia.	Enlargement of spleen, liver, &c.	Strangulation.	Inflamation of heart, lungs, &c.	Hepatitis.	Incapacitated for further service.	Splenic Apoplexy.	Rinderpest.	Foot and mouth disease.	Cystic lungs and liver.	Disordor of liver, lungs, &c.	Destroyed.	Œdematous swelling of dewlap.	Exhaustion due to ulceration of knee joint.	Malignant Œdema of throat.	Abcess of liver.		Bullock Hospital.	Camathipura Stables, E Ward	Bori Bandar Stables.	Camathipura Stables N. Branch.	Sent to Pinjrapol.	Null Bazaar Stables C. Ward.				Rs.		p.
December, 1893.....	4	1	1	1	2	1	...	...	...	...	..	..	...	..	...	...	...	10	6	1	2	1	–	–	10	·5	647	10	6
January, 1894	2	...	1	...	3	...	43	1	16	7	1	1	1	...	...	...	..	76	28	...	3	1	43	1	76	3·8	4,922	3	...
February, 1894.....	2	..	...	...	1	...	..	...	23	1	..	1	...	1	1	1	1	32	31	..	1	...	...	..	32	1·6	2,072	8	...
Total...	8	1	2	1	6	1	43	1	39	8	1	2	1	1	1	1	1	118	65	1	6	2	43	1	118	1·9	7,642	5	6

No. 1332 of 1894-95. Bombay, 13*th April* 1894.

Forwarded to the Municipal Commissioner, through the Chief Accountant, for favour of obtaining sanction of the Standing Committee to write off the loss.

T. S. WEIR, Health Officer.

No. 1130. *Resolved*: "That, as applied for by the Commissioner, in his memorandum No. 1671, dated 21st ultimo, the Corporation be recommended to sanction the writing off of (1) Rs. 7,642-5-6, from the Live Stock return of the Health Department, being the book value of 117 bullocks that died or became incapacitated, and one that was destroyed during the quarter ending 28th February 1894; (2) Rs. 789-13-6, from the Live Stock return of the Market and Slaughter House Departments, being the book value of 8 bullocks sent to Pinjrapol, during the same quarter, and (3) Rs. 400, from the Live Stock of the Fire Brigade Department, being the book value of one horse that died, on 5th February 1894."

No. 1131. *Resolved*: "That, as applied for by the Commissioner, in his letter No. 1965, dated 25th ultimo, sanction be given to the payment of Rs. 12-8-0, to fitter M. Francis DeSouza, being the amount of his wages, for the time he was detained in hospital on account of injuries received while in the execution of his duty in the Workshops."

No. 1132. *Resolved*: "That, as applied for by the Commissioner, in his letter No. 2001, dated 25th ultimo, sanction be given to his entrusting the work of covering the floors of the vaults, under the filters at the Malabar Hill Reservoir, with one inch of Indian Patent stone, and repointing the walls up to the springing arches with the same materials, to Messrs. Garlick & Co., the patentees of this stone, at the following rates:—Clearing concrete floor and preparing it for Indian Patent stone and providing and laying one inch of Indian Patent stone, including filleting, Rs. 33 per 100 square feet; breaking brick arches of vaults and making good again in 2 to 1 cement mortar, Rs. 100 per 100 cubic feet; removing old flooring and replacing with Indian Patent stone, Rs. 4 per 1 cubic foot. The cost to be debited to the grant of Rs. 40,264, sanctioned by the Corporation, in their Resolution No. 12143, of 12th February last."

"That, under the terms of Section 72 (3) of the Municipal Act, the Committee dispense with the invitation for tenders which would otherwise be necessary as Messrs. Garlick and Co. are the patentees of the material in question."

No. 1133. *Resolved* : "That, as applied for by the Commissioner, in his letter No. 1294, dated 17th ultimo, and with reference to his letter No. 2400, dated 1st instant, to the Secretary, the Standing Committee approve of application being made to Government for the taking up, under the Land Acquisition Act, of 6 plots of ground, situate west of Sion road, required for the site of the new road from Matunga to Dadar, and frontages for the same, as shown within red hatched lines on the tracing marked "A," dated this day, and filed in supplement to Minute Books."

No. 1134. *Resolved* : "That, as applied for by the Commissioner, in his letter No. 1964, dated 25th ultimo, sanction be given to the continuance, during 1894-95, of the arrangement sanctioned in the Committee's Resolution No. 661, dated 19th April 1893, of payment, as occasion arises, from time to time, of overtime wages to workmen of the Municipal workshops' labour staff and Water Works Department.

"That the Commissioner be asked to inform the Committee of the amount of overtime wages as above, paid during the past year."

Proposed by K. M. Shroff, Esq., seconded by Kaikhosro N. Kabraji, Esq.—

No. 1135. "That the question of excesses on the grant for materials, Water Works, be referred back to the Commissioner, with a view of his getting the bills checked by the Executive Engineer, and of obtaining the report thereon of that officer."

Carried.

Read letter, No. 2103, dated 27th ultimo, from the Commissioner, to the Secretary, as under :—

SIR,—I have the honor to say that a serious nuisance, of which the Health Officer complains, is caused by a stand-pipe behind Sir D. M. Petit's chawl Nos. 583-85, Falkland Road, it being unconnected with the Municipal sewer thereat. The Executive Engineer also reports that Mr. Jamshedji Kamaji, the owner of a stable on Kalbadevi Road, is now carrying out the drainage work inside his premises, and that therefore it is absolutely necessary that the Municipality should do the outside work, as the premises are in the First Drainage Section, and connect them with the Municipal drain ; otherwise a great nuisance will be caused.

As the above works are in the First Drainage Section they will have to be carried out at Municipal expense. I append estimates of the cost, *viz.*, Rs. 271 and Rs. 97, respectively, and request sanction of the Corporation to the expenditure. Work in the First Drainage Section generally has been stopped, pending the report of the House Connection Committee, but I believe, it was not intended that isolated cases of nuisance should not be dealt with.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 1136. *Resolved*:—"That, as applied for by the Commissioner, in his letter No. 2103, dated 27th ultimo, the Corporation be recommended to sanction the grant of Rs. 271 and Rs. 97, respectively, to meet the cost of connecting (1) the stand-pipe behind Sir Dinsha Manekji Petit's chawl, Nos. 538-85, Falkland Road, and (2) the stable of Mr. Jamshedji Kamaji, at Kalbadevi Road, with the Municipal sewer thereat ; both these premises being in the First Drainage Section. The amount to be met from the grant for House Connections, First Drainage Section."

No. 1137. The following item was *withdrawn* by the Commissioner, as the proposed arrangement had fallen through, consequent on the Company's unwillingness to pay the rent demanded :— Letter No. 2188, dated 28th April 1894, from the Commissioner, to the Secretary, reporting that he has leased to the Agents, Khatau Makanji Spinning and Weaving Company, the site of Sankli Tank, lately

reclaimed, for a period not exceeding four months, at Rs. 200 per month, and subject to removal at a month's notice. Stating that the Executive Engineer reports that the ground will be built upon after the rains and that there is no objection to its being leased for a temporary purpose.

It was agreed that the following be transferred to the list of outstanding business :—Letter No. 1113, dated 16th ultimo, from the Commissioner, to the Secretary, reporting, with reference to the Committee's Resolution No. 2439, dated 14th June 1893, on Government letter No. 1467, General Department, dated 27th April 1893, regarding the Accountant General's criticisms on the financial system of the Municipality; forwarding Report No. 20, dated 3rd ultimo, from the Chief Accountant.

No. 1138.

Resolved: "That the following *be recorded* :—Memorandum No. 1541, dated 20th ultimo, from the Commissioner, to the Secretary, reporting, with reference to the Standing Committee's Resolution No. 4484, dated 3rd October 1888, the following transfers to the Municipal General Fund Pass Book, on the 13th ultimo :—

(*a*)	From the 27 lakhs Drainage and Water Works Loan Deposit Account.....	Rs.	1,161	0 0
(*b*)	From the 7 lakhs Sanitary Works Loan Deposit Account No. 2.....	„	2,621	11 0
(*c*)	From the 10,08,500 Miscellaneous Works Loan Deposit Account	„	6,242	2 0
(*d*)	From the Agripada House Sullage Water Connections Loan Deposit Account ...	„	649	2 0
(*e*)	From the Surplus Cash Deposit Account.	„	42,109	12 0

Also reporting, with reference to the Committee's Resolution No. 5620, dated 9th January 1889, the following transfers, on the 13th ultimo :—

(*e*) From the Surplus Cash Deposit Account, to the 5 per cent. and 4 per cent. Municipal Loan Sinking Fund Deposit Account 5 per cent. Municipal Debentures	Rs.	7,500	0 0
Do. do. to the Worn-out Mains Renewal Fund Deposit Account 4 per cent. Debentures	„	4,500	0 0
Do. do. to the Municipal Buildings Fire Insurance Deposit Account 4 per cent. Debentures	„	500	0 0
Do. do. to the net premia, &c., on different Municipal Loans Deposit Account 4 per cent. Debentures	„	500	0 0*"

Resolved : " That, in reply to their application, dated 16th ultimo, Messrs. Vishnu Narsingrao & Co., be informed that it is not necessary to re-open the question of the contract for the supply of road metal during 1894-95." No. 1139.

Resolved : " That the following be circulated and brought on for consideration at the next meeting :—Memorandum No. 2217, dated 28th ultimo, from the Commissioner, to the Secretary, forwarding certain proposals made by Mr. Rebsch, for the keeping of a register of cheques to be drawn, with columns for the signatures of the head of the department who forwards the bill, and of the Chief Accountant, in token of the amounts having been checked in his office." No. 1140.

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* The Chief Accountant reports to the Commissioner that the balances remaining to the credit of the above deposit accounts, after effecting the transfers now reported, stand as under :—

(*a*) In 5 per cent. Municipal Debentures for					Rs. 46,500	0 0
(*b*) Do. do.					„ 1,05,000	0 0
(*c*) In 5 per cent. Municipal Debentures for .....Rs.	2,50,000	=	2,50,000			
„ 4 per cent. Government Paper for .....Rs.	1,00,000	=	99,625			
					Rs. 3,49,625	0 0
(*d*) „ 5 per cent. Municipal Debentures					„ 26,000	0 0
(*e*) „ 5 per cent. Municipal Debentures for ..... „	18,89,500	=	18,89,500	0 0		
4 Do. „	1,59,500	=	1,59,500	0 0		
Do. Government Paper or „	3,63,500	=	3,78,592	3 0		
					„ 24,27,592	3 0

Resolved: "That draft letter to Government on the subject of the raising of the 25¼ lakhs loan now laid before the Standing Committee, be approved; and that the same be forwarded to the Corporation, with the recommendation that the President be requested to address Government in terms thereof.

No. 1141.

"That the Chairman be requested to give the necessary notice of motion in order that the subject may be brought before the Corporation at the monthly Meeting called for 7th instant."

The following return was read and *recorded*:—

Return of fire at DeSouza Street, Mandvi, forwarded with Commissioner's memorandum No. 1695, dated 21st April 1894.*

The following statement† was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes for the week ending 29th April 1894.—

In reply to questions, the Commissioner stated that, at the present season of the year the Tulsi water had always been deficient in quantity and not over-abundant in quality, but this year there had been a very considerable alteration in quality which they were not yet able to account for. However, he believed the Health Officer had gone to Tulsi that day to inquire into the matter. The water certainly smelt very bad, and the taste was disagreeable, Dr. Weir thought that possibly the heavy clouds, lately noticed, had drawn up a great quantity of vegetable matter to the surface, and this having decomposed had occasioned the pollution. He (Dr. Weir) had now gone to Tulsi and if the lake was found in its ordinary state, then it must be presumed that there had been something wrong down the pipe line, and the line would have to be examined section by section. Tulsi water had been shut

* *See* Appendix C. † *See* Appendix B.

off from the Malabar Hill Reservoir since last Friday. Tansa water had been sent through to the districts suplied from Tulsi, but Tansa was not equal to supplying all its own district and the area supplied by Tulsi at high pressure, consequently the pressure was not so satisfactory as could be wished. As far as Malabar Hill was concerned, he (the Commissioner) had, that day, sent a fire-engine to pump water up to the higher levels. He did not know when it would be possible to bring the Tulsi water back into the Reservoir, but he might point out that if the filter area at Malabar Hill had been large enough to cope with the whole of the Tulsi water, none of the present difficulties would have been experienced. As they had not got a sufficiently large filtering area at Malabar Hill, they had been obliged to shut the Tulsi water off altogether.

No. 1144. *Resolved*: "That letter dated 30th ultimo, from Mr. Grattan Geary, explaining the cause of an error in the printing of the agenda paper of the Meeting held on 25th idem, be *recorded.*"

No. 1145. *Resolved*: "That, as applied for by the Commissioner, in his letter No. 2495, dated this day, sanction be given to the acceptance by him of the tender of Messrs. Bribra Sitaram and Co., the lowest of the five tenders received, for constructing storm water drain, with manholes and water gullies, in Kala Chowki Road, at schedule rates, aggregating Rs. 6,528·905, *plus* 10 per cent. contingencies, Rs. 653, total Rs. 7,181·905. The cost to be debited to the sanctioned grant of Rs. 10,534.

"That para. 2 of the said letter, reporting that it is proposed to do departmentally, the work of road repairs and resetting khankis in connection with this work, at a cost of Rs. 890·82, be *recorded.*"

No. 1146. *Resolved* : "That, as applied for by the Commissioner, in his letter No. 2496, dated this day, sanction be given to the acceptance by him of the tender of Messrs. Bribra Sitaram and Co.,

the lowest of the four tenders received, for the construction of storm-water drain, with manholes and water gullies, in Chamar Lane, near Parel Road, at schedule rates, aggregating Rs. 4801·880, *plus* 10 per cent. contingencies, Rs. 480, or a total of Rs. 5,281·880. The amount to be debited to the sanctioned grant of Rs. 7,813.

"That para. 2, as follows, be *recorded*:—Report by the Commissioner that the work of repairing and raising roads which is estimated to cost Rs. 577·50, will be done departmentally, and that of repairing and cleaning the existing storm-water drain, estimated to cost Rs. 250, will either be done departmentally, or entrusted to the contractors for the work, as extra work, as may be found expedient."

BOMBAY, *9th May* 1894.

At the meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman*.

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, C.I.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJI, ESQ.; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L. M. & S.; R. H. VINCENT, ESQ., C.I.E.

H. A. ACWORTH, ESQ., I. C. S., Commissioner; and the SECRETARY.

The minutes of the Meeting held on the 2nd instant, were signed.

The seal of the Corporation was affixed to deeds of contract (1) with Messrs. Littlewood and Pallonji, for laying cast-iron pipes in Bapty Road and other places; (2) with Messrs. Latham & Co., for the supply of enamelled street name plates.

Resolved:—"That, as applied for by the Commissioner, in his Memorandum No. 3141, dated this day, sanction be given to the cutting off of water connections, as per list submitted therewith."

No. 1446.

No. 1447.

Resolved:—"That, as applied for by the Commissioner, in his Memorandum No. 2488, dated the 2nd instant, and for the reasons stated in the report of the Chief Accountant, No. 449 of 30th ultimo, sanction be given under the terms of Section 24 of the Pension Regulations, to the Commissioner declaring that the following new appointments provided in the current year's budget are non-qualifying for the benefit of the Pension Fund :—General Office establishment—1 mali ; 2 naiks ; and 4 watchmen."

No. 1448.

Resolved :—"That, as applied for by the Commissioner, in his letter to the Secretary, No. 2547, dated 2nd instant, sanction be given to the payment of furlough allowances, monthly, in arrears, as follows :—(1) Mr. Sorabjee Navrojee Cooper, Chief Accountant, who has been granted furlough for 16 months from 28th ultimo, through Messrs. Coutts & Co., in London, on personal application or on production of a life certificate and a duly signed authority and receipt ; (2) to Dr. D. Macdonald, Secretary and Curator, Victoria and Albert Museum, who has been granted furlough for 6 months from 5th instant, through the National Bank of India, on production of a power of attorney from him, and a life certificate and a receipt every month ; and (3) to Mr. J. Leask, Assistant Health Officer, who has been granted furlough for 6 months from 15th June 1894, through Messrs. King, King and Co., Bombay, on production of a power of attorney from him, and on Messrs. King, King and Co. executing a bond to refund such portion of the amount as he may not be entitled to, owing either to death or to vacation of appointment, by abolition, resignation, or any other cause, and that a life certificate be also submitted every quarter."

No. 1449.

Resolved :—"That the following be *recorded* :—Letter No. 2533, dated 2nd instant, from the Commissioner to the Secretary, reporting that under the terms of the contract with Messrs. Garlick & Co., for covering the vaults of the Malabar

Hill Reservoir with Indian Patent Stone, it is provided that the vaults be lighted with electricity at the expense of the Municipality, during the progress of the work, but as this light is expensive, the Executive Engineer recommends the use of 104 candle-power oil-lamps, the purchase of which has been sanctioned at a cost of Rs. 265, *plus* Rs. 6-12-0 for oil. That, under the terms of section 69 (*e*) of the Municipal Act, sanction be given to the variation of the said contract, so as to allow of the provision of oil-lamps instead of electric lamps."

No. 1450. *Resolved*:—"That the following be *recorded*:—Letter No. 2609, dated 3rd instant, from the Commissioner to the Secretary, reporting the purchase, from Messrs. John, Fleming and Co., of 40 hydrants, at Rs. 52 each, and 400 running feet of hose at Re. 1 per running foot for road-watering. The cost, Rs. 2,480, to be met out of the grant for the purchase of hydrants and hose."

No. 1451. *Resolved*:—"That, as applied for by the Commissioner, in his letter No. 2626, dated 4th instant, the Corporation be recommended to sanction the expenditure of Rs. 819, to meet the cost of connecting the cesspool of houses belonging to Mr. Kavasji Sorabji and Mr. Shivlal Motilal, with the Falkland Road sewer, in order to prevent the serious nuisance which exists there, and which, the Health Officer reports, will continue to exist until proper drainage is effected, the amount to be met from the grant for house connections."

The following notice of motion, given by Mr. Roughton, with reference to the Committee's Resolution No. 13977, dated 20th March last, sanctioning the filing of a suit in the High Court, against the G. I. P. Railway Company, and application for an injunction restraining the Company from preventing Municipal servants from entering on the Company's land at Chinchpokli level crossing, for the purpose of making a connection between the Municipal Water mains thereat, was *withdrawn*.

That Resolution of the Standing Committee No. 13977, dated 20th March last, be rescinded or modified.

Resolved : "That the following be printed on the minutes of this day's Meeting :—Memo-
No. 1453. randum No. 2640, dated 4th instant, from the Commissioner to the Secretary, forwarding return of receipts and disbursements for the quarter ending 31st March 1894."

No. 480 OF 1894-95.

TO THE MUNICIPAL COMMISSIONER.

BOMBAY, 1*st May* 1894.

SIR,—I have the honour to forward for transmission to the Standing Committee a return of the receipts and disbursements of the Bombay Municipality for the quarter ending 31st March 1894, as compared with the corresponding quarter for the previous year as required by the then Town Council's Resolution No. 465, dated 1st June 1887, with a list of additional grants sanctioned by the Corporation during the quarter.

2. As the accounts for the past year have not been finally closed, I am not in a position to state the precise amount of the Surplus Cash Balance. But the Chief Accountant has already reported to you the approximate amount in a pencil note made by him in answer to your query made on the papers regarding providing 60 new wind-proof lanterns, &c., to the existing incandescent lights, which is as follows :—

"So far as I can at present ascertain, the surplus would amount to about, say, 3½ or 4 lakhs. I cannot give exact figures until the list of all lapsed grants required to be renewed are submitted by Heads of Departments."—I have, &c.,

W. PEARSON,
Acting Chief Accountant.

ACCOUNT OF THE BOMBAY MUNICIPALITY FOR

Receipts.	Budget Estimate. Rs. a. p.	Quarter ending 30th March 1893. Rs. a. p.	Quarter ending 31st March 1894. Rs. a. p.
Opening Balance on 1st April 1893	16,00,000 0 0	9,15,771 10 7	3,12,633 6 7
General Tax	17,97,596 0 0	2,87,127 1 4	2,13,492 10 11
Water Tax (including other Miscellaneous Revenue)	13,25,000 0 0	3,50,883 2 8	3,28,597 4 5
Wheel Tax and Tolls	3,28,324 0 0	1,85,652 5 4	1,03,375 11 2
Halalcore Tax	5,74,000 0 0	1,19,051 4 10	98,876 7 10
Duties, Town	9,90,000 0 0	3,44,429 13 2	3,69,787 14 1
Licenses	76,850 0 0	27,929 15 0	33,773 1 0
Liquor Licenses, Instalment paid by Government in lieu of, under B. Act V. of 1878.	1,43,750 0 0	.....	.....
Tobacco Duty (under Act IV. of 1857)	1,82,000 0 0	63,880 1 1	62,453 6 1
Market Receipts	3,61,000 0 0	79,370 6 7	80,532 1 0
Miscellaneous Fees	40,300 0 0	8,346 14 10	11,172 7 11
„ Fines and Penalties	7,000 0 0	3,916 4 0	2,823 6 4
„ Receipts	1,20,000 0 0	38,561 14 6	60,745 7 4
„ Savings	2,000 0 0	.....	.....
Public Gardens	6,700 0 0	2,286 1 6	2,328 0 0
Contribution from Municipal Servants towards Pensions, &c., Fund	15,300 0 0	4,343 12 0	4,009 6 4
Tramway Rent	36,200 0 0	.....	.....
Interest and Profit on Investments	2,29,800 0 0	79,232 0 7	47,793 9 0
	61,45,820 0 0	15,95,014 1 5	15,08,754 13 11
Premia on the 4 per cent. Loan for repayment of the Government Consolidated Loan	.....	.....	*24,836 9 6
Premia on the 2nd Instalment of 2 Lakhs of the 4½ Lakhs Loan for Fire Brigade Quarters and Stations	.....	.....	*3,242 0 0
Net premia, &c., received on different Municipal Loans	.....	.....	4,58,699 4 2
Debt	.....	.....	13,00,000 0 0
Bank of Bombay Loan and other Deposit Accounts	.....	34,43,522 11 10	21,54,068 14 1
Workshop Recoveries	.....	35,681 3 3	29,088 12 3
Advances	.....	1,22,600 10 7	1,27,837 15 6
Deposits	.....	1 80,896 10 4	2,96,744 9 0
Rupees	61,45,820 0 0	53,77,715 5 5	58,47,115 11 5
Total Rupees	77,45,820 0 0	62,93,487 0 0	61,56,749 2 0

* Debits deducted.

THE QUARTER ENDING 31ST MARCH 1894.

	Budget Estimate.	Quarter ending 30th March 1893.	Quarter ending 31st March 1894.
Disbursements.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Superintendence	1,98,156 0 0	57,973 0 8	79,145 14 6
Assessment and Collection Department	2,51,060 0 0	75,201 12 0	70,662 0 0
Fire Brigade	1,11,515 0 0	46,868 4 11	20,304 6 1
Public Gardens	80,147 0 0	27,517 0 10	29,951 10 8
Public Works (Engineer's Dept.) — General Supervision Establishment	40,924 0 0	8,919 10 10	9,707 2 3
Drainage	1,96,991 0 0	48,796 10 1	46,977 7 11
Water Works	2,99,924 0 0	64,658 2 6	54,682 7 2
Streets and Buildings Inspection and Supervision Establishment	87,917 0 0	22,329 11 11	22,488 4 0
Public Lighting	3,21,410 0 0	70,[illegible]2 4 10	75,347 9 9
Road Watering	77,744 0 0	25 61 13 3	29,702 6 1
Road Repairs and Maintenance	4,08,419 0 0	1,13,612 2 6	1,12,656 5 1
Street Improvements	1,01,000 0 0	6,2[illegible]8·14 9	26,506 2 0
Cleaning, Lighting and Repairing Port Trust Wharves	38,842 0 0	.....	.....
Health Department	13,92,200 0 0	3,39,121 4 9	3,98,614 15 5
Police Charges	3,63,345 0 0	1,69,630 14 9	57,763 8 1
Education	91,032 0 0	19,774 1 7	19,610 13 8
Hospitals	60,108 0 0	13,508 15 7	17,152 0 8
Miscellaneous	55,050 0 0	20,094 1 3	13,699 2 10
Adjustment of excess on different Loan Works sanctioned to be paid out of the net premia received on the respective Loans	.....	.....	2,93,848 11 11
New Works	81,292 0 0	62,161 6 9	56,798 4 5
Debt (including Sinking Fund deposited with the Bank of Bombay)	21,73,112 0 0	7,01,533 14 5	5,40,544 2 11
	64,30,488 0 0	19,73,644 4 2	19,76,106 7 5
Adjustment of the net premia received on loans in previous years and credited to the respective Loans in those years now transferred to current revenue by debit to those Loans	.....	.....	4,10,268 1 2
Loan Works Accounts	.....	14,71,457 13 2	36,120 14 6
Bank of Bombay Loan and other Deposit Accounts	.....	17,54,050 12 5	29,36,889 5 9
Workshops	.....	25,941 15 9	27,801 2 3
Advances	.....	1,13,656 8 1	1,93,958 14 10
Deposits	.....	7,42,163 8 3	2,61,318 9 4
Rupees ...	64,30,488 0 0	60,80,914 14 8	58,42,463 7 3
Closing Balance	.....	2,13,572 1 4	3,17,285 10 9
Estimated Balance on 31st March 1894	13,15,332 0 0	.....	.....
Total Rupees ...	77,45,820 0 0	62,93,487 0 0	61,59,749 2 0

List of Additional Grants sanctioned by the Corporation for the Quarter ending 31st March 1894.

Reso. No.	Month and Date.		Amount.
	1894.		Rs. a. p.
9882	January 4 ...	Grant of Rs. 1,500 from surplus cash balance to meet the cost of illuminating and enclosing the address to the Right Hon'ble the Earl of Elgin, as also the address to Dadabhai Navroji, Esq., M.P.	1,500 0 0
10940	„ 20 ...	Grant of Rs. 25,330-5-5 from surplus cash balance to meet the cost of (1) building ward office at Dadar Rs. 14,140; (2) filling in portion of the Sewri Cemetry, Rs. 9877-13-5; and (3) purchase of boundary stores for fixing along the pipe line from Kurla to Vehar and from Bandora to Tulsi, Rs. 1,312-8.....	25,330 5 5
10941	„ 20 ...	Grant of Rs. 4,725 from surplus cash balance to meet the cost of coal required for the Love Grove Pumping Station up to the end of February 1894.....	4,725 0 0
10943	„ 20 ...	Grant of Rs. 1,087 from Surplus Cash Balance for the purchase from Messrs. Venku Balloo & Co., the contractors for building the New Municipal Offices, of glazed moulded coping tiles and quarry glass for future repairs to the building	1,087 0 0
11217	„ 25 ...	Grant of Rs. 2,500 from Surplus Cash Balance for the book value of water used at the Love Grove Pumping Station during the current year	2,500 0 0
11223	„ 25 ...	Grant of Rs. 30,000 from Surplus Cash Balance to meet the excess cost of law charges up to the end of the current financial year.....	30,000 0 0
11644	February 1 ...	Grant of Rs. 20,000 from Surplus Cash Balance for providing additional machinery and plant for lighting the Municipal Offices and the Arthur Crawford Markets by electricity and for altering the driving gear of the dynamo.	20,000 0 0
11913	„ 5 ...	Grant of Rs. 1,500 from Surplus Cash Balance to meet the payment of compassionate allowance to Bai Coverbai, widow of Mr. Pestonji Ardeshir Moos, late Inspector in the W. W. Department	1,500 0 0
11914	„ 5 ...	Grant of Rs. 2,000 from Surplus Cash Balance to meet the further cost of printing and reporting the proceeding of the House Connections Committee and the printing of the Committee's report	2,000 0 0
11916	„ 5 ...	Grant of Rs. 2,990 from Surplus Cash Balance to provide for the cost of repairing and re-erecting the gates of the Elphinstone Circle Garden	2,990 0 0
12144	„ 12 ...	Grant of Rs. 160 from Surplus Cash Balance to meet the cost of connecting the Water Engineer's bungalow with the Telephone system between Chinchpookli, Sion, Pawai, Ghat-Kooper and Bhandup	160 0 0
		Carried forward Rupees...	91,792 5 5

Reso. No.	Month and Date.		Amount.
			Rs. a p.
		Brought over Rupees.....	91,792 5 5
12147	1894. February	12 ... Grant of Rs. 6,000 from unappropriated balance to meet the amount of rent for one year of the ground floor of Pinjrapol Committee's office building occupied by stall-holders of the Bhooleshwar Market, Rs. 2,000 for the removal, re-erection and repair of stalls and Rs. 930 for one year on account of Municipal Taxes.....	8,930 0 0
12126	,,	19 ... Grant of Rs. 504 from the unappropriated balance being the amount of rent of 1 month of 4,000 s. yards or thereabouts of land situate between Cambay and Bassein Streets taken on lease for a period for 15 months from the Port Trust for the construction thereon of temporary chawls for bigaries of the Health Department pending the building of their chawls at Bori Bunder as sanctioned by the Corporation in their Resolution No. 19246, dated 16th February and Rs. 3268 for the construction of these temporary chawls.....	3,772 0 0
13413	March	8 ... Grant of Rs. 2,500 from Surplus Cash Balance to meet the cost of moiety of Mr. Steven's fees *plus* half the cost of printing his award and Statements which cannot be at present ascertained.....	2,500 0 0
13415	,,	8 ... Grant of Rs. 1,727 from Surplus Cash Balance to meet the amounts payable to Officers and servants of the Health Department for their services during the riots in August 1893.....	1,727 0 0
13416	,,	8 ... Grant of Rs. 250 from Surplus Cash Balance on account of charges in connection with the presentation of address to Dadabhai Navroji, Esq., M.P., in the Town Hall on the 11th idem.....	250 0 0
13418	,,	8 ... Grant of Rs. 22 per mensem from Surplus Cash Balance to meet the wages of two Police Ramosees from 1st March 1894, one for day duty and one for night duty at the Bullock Hospital, Sankli Street.....	264 0 0
13429	,,	8 ... Grant of Rs. 1,812, additional, from Surplus Cash Balance as the area of land actually acquired on the west side of Vehar Lake is 9 acres and 1 guntha, instead of 8 acres and 30 gunthas as defined in the Corporation's Resolution No. 4459, dated 7th August last.	18 12 0
13940	,,	19 ... Grant of Rs. 21,081-4-2 from Suplus Cash Balance to meet the excess on the Budget Grants for water consumed for Municipal purposes, principally by the Health Department.....	21,081 4 2
		Total Rupees.....	1,30,335 5 7*

* Exclusive of the grant of Rs. 500 to the debit of the Garden Fund to meet the expense to be incurred by the Officer of the Calcutta Zoological Society in attending in Bombay to advise the Committee appointed by the Corporation on the 25th ultimo for improving the Zoological Collection in the Victoria Gardens (C. Reso. No. 12135 of February 1894.)

No. 2640 of 4*th May* 1894.

Forwarded to the Standing Committee for information.

H. A. ACWORTH, Commissioner.

No. 1454. *Resolved*: "That memorandum No. 2270, dated 22nd ultimo, from the Commissioner, forwarding statements showing the investments of Loan and Reserve Fund balances up to 31st March last, be referred back to the Commissioner, with the request that the dates of the several investments be shown."

No. 1455. *Resolved*: "That the following be circulated and brought on for consideration at next meeting:—Memorandum No. 2804, dated 5th instant, from the Commissioner forwarding, with reference to the Resolution of the Committee, No. 1752, dated 31st May 1893, a statement showing the number of cases during the past three years, in which agreements for set back have been entered into, and the estimate of cost which would have been incurred if all the properties concerned had been immediately acquired."

Read letter No. 2871 from the Commissioner to the Secretary, as under:—

SIR,—I have the honour to state that frequent complaints have been received of serious nuisances from the foul condition of the Frere Road Sewer, and that in order to minimize the nuisance and to enable men to enter it for cleaning purpose without danger to life, both the Executive Engineer and the Health Officer consider it absolutely necessary that side entrances should be provided throughout its whole length, as otherwise, it would be altogether unsafe to allow men to enter it. Both these officers and myself are agreed as to the absolute necessity of cleaning the sewer. The estimated cost of constructing 49 side entrances is Rs. 5,608. As there is no provision in the current year's Budget for this work, I request the sanction of the Standing Committee and Corporation to the amount being met from Surplus Cash Balance, amounting to about 3½ lakhs.—I have, &c.,

H. A. ACWORTH, Commissioner.

Proposed by G. W. Roughton, Esq., seconded by Cowasjee Hormusjee, Esq.—

No. 1456. "That letter No. 2871, dated 5th instant, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recom-

mendation that sanction be given to the expenditure of Rs. 5,608, from Surplus Cash Balance, to meet the cost of providing 49 side entrances to the Frere Road sewer, in order to minimize the nuisance that exists there, and to enable labourers engaged in cleaning the same to work without danger to their lives."

Carried.

Resolved : "That the consideration of the following be further postponed till next week:—Memo-
No. 1457. randum No. 2217, dated 28th ultimo, from the Commissioner to the Secretary, forwarding certain proposals made by Mr. Rebsch for the keeping of a Register of Cheques to be drawn, with columns for signatures of the head of the department who forwards the bill, and of the Chief Accountant in token of the amounts having been checked in his office."

Resolved : "That the following *be recorded* :—Memo-
No. 1458. randum No. 2357, dated 1st instant, from the Commissioner to the Secretary, reporting, as required by the Committee's Resolution No. 4484, of 3rd October 1888, the following transfers to the Municipal General Fund Pass Book," *viz.* :—

On 23rd April 1894 (*a*) From the 5 per cent. and 4 per cent. Municipal Loans Sinking Fund Deposit Account, Rs. 7,500-0-0 ; (*b*) from the Worn-out Mains Renewal Fund Deposit Account, Rs. 4,500-0-0 ; (*c*) from the net premia, &c., on different Municipal Loans Deposit Account, Rs. 505-8-10; (*d*) from the Municipal Buildings Fire Insurance Deposit Account Rs. 505-8-10.*

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* The Acting Chief Accountant reports to the Commissioner that the balances remaining to the credit of the above deposit accounts, after effecting the transfers now reported, stand as under :—

(*a*)	In 5 per cent. Municipal Debentures for ...	Rs.	8,21,000		Rs.	8,21,000	0	0
	„ 4 do. do.	„	8,000		„	8,000	0	0
	Cash ...		...			454	2	0
(*b*)	In 5 per cent. Municipal Debentures for ... Rs.	1,97,500=				1,97,500	0	0
	„ 4 per cent. do. Paper for ... „	7,000=				7,000	0	0
	Cash ...	...	...			401	14	4
(*c*)	In 5 per cent. Municipal Debentures ...	...	1,64,000			1,64,000	0	0
	„ 4 per cent. do.	...	500			500	0	0
	Cash ...	...	...			344	4	5
	5 do. „	15,500=				15,500	0	0
	4 do. „	1,000=				1,000	0	0
	Cash ...	...	...			64	6	7

Resolved : "That the following be referred to the Commissioner for disposal :—Letter dated 3rd instant, from Eshwadabai Poojharin, requesting the Standing Committee to sanction the erection of a door for the temple or image, the ownership of which is claimed by the applicant, on the Parel Road."

No. 1459.

Resolved : "That the following be forwarded to the Commissioner for report :—Letter to the Corporation from Mr. Bezonji Nowroji, horse-dealer, and others, complaining of the nuisance caused at Chinch Bunder Road, in the house occupied by Punja Jeram, for the trade of removing dust from grain."

No. 1460.

Considered petition, dated 16th ultimo, from Mr. Gangaram Krishnaji, to the Corporation, complaining that the Commissioner refuses to grant a license for the continuance of applicant's tannery at Manmala Tank Road ; also the following letter from the Commissioner to the Secretary :—

No. 2673 of 1894-95.

BOMBAY, 4*th May* 1894.

SIR,—With reference to the Standing Committee's Resolution No. 1001, of the 25th ultimo, I have the honour to state that, as the Health Officer objected to the position of this and other tanneries, the party was informed, so far back as September 1890, that the tannery would not be licensed.

As in spite of this distinct warning and subsequent replies that the license would not be renewed, he continued to work his tannery, he was placed before the Presidency Magistrate, who fined him and ordered him to vacate. The Health Officer has recently altered his opinion, and thinks this tannery should be licensed so long as those at Dharavi are licensed.

I have personally visited the tannery more than once and concur in the earlier and not the later opinion of the Health Officer, that the position is not suitable for the purpose of working a tannery, and that the existence of the Dharavi tanneries is no reason for allowing tanneries in Mahim.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved :—"That letter No. 2673, dated 4th instant, from the Commissioner to the Secretary, stating the objections there are to the renewal of license for the carrying on a tannery in Manmala Tank Road, Mahim, be forwarded to the Corporation with reference to application from Mr. Gungaram Krishnaji."

No. 1461.

The following return was read and *recorded* :—

Return of fires at Parsee Bazar Street, Thakurdwar Road, and DeSouza Street, forwarded with the Commissioner's Memorandum No. 2314, dated 30th April 1894.*

The following statement† was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes for the week ending 6th May 1894.

In reply to a question the Commissioner said "that a large quantity of water has, within the past few days, been drawn off by the sludge pipe from Tulsi Lake, and the quality of the water is now as good as ordinarily."

No. 1463.

Resolved : "That with reference to their Resolution No. 1418, dated 7th instant, the Corporation be recommended to sanction the grant of Rs. 510-4-0 from Surplus Cash Balance for cost of telegraphing to the Government of India and the Government of Bombay the representations of the Corporation on the subject of the proposed further increase of the Bombay City Police."

No. 1464.

Resolved : "That the following be referred to the Commissioner for favour of remarks."

No. 1465.

Letter, dated 9th instant, from Mr. B. R. Kotewal, submitting for consideration of the Corporation, petition from himself and other citizens asking for the widening of the first Marine Street, Dhobi Talao.

Resolved : "That the following be *recorded* :—Letter to the Secretary, No. 3039, dated 8th instant, from the Commissioner, reporting

No. 1466.

* See Appendix C. † See Appendix B.

that he has sold the right of occupancy of stall No. 263 in the Fort Market for Rs. 43 per annum."

No. 1467. *Resolved:* "That, as applied for by the Commissioner, in his letter No. 3044, dated 8th instant, sanction be given to the payment of ferry hire charges and toll fees required to be paid for carrying across the Kalshet creek the carts conveying stores and pipes along the Tansa Line. The cost to be met out of the grant for Contingencies Water Works."

No. 1468. *Resolved:* "That, as applied for by the Commissioner, in his letter No. 3053, of 8th instant, sanction be given, under section 69 (*e*) of the Municipal Act, to the variation of the contract with Mr. Bhojabhai Allarakhia, Contractor, for the supply of hay and grain, during 1894-95, so as to permit of the interest accruing on his deposit of Rs. 31,000, in Government paper, being paid to him on his defraying the Bank's fees."

Read the following:—

BOMBAY, *April 2nd*, 1894.

TO THE CHAIRMAN, CORPORATION AND STANDING COMMITTEE.

GENTLEMEN,—I most humbly beg to refer you to the Municipal Commissioner's Nos. 5657, 19478, 19484, 12111 B., 15199 B., 26094, 17106, 17605, and Executive Engineer's No. 15765, in which all correspondence was lengthened by them, and at last in letter No. 2874, I received a reply that compensation cannot be paid me, as it has become time-barred, who is to blame for this, as whatever letters and documents were required by them I have produced as asked for. Therefore, I request that the letters of the Municipality be sent for and examined, as it is not right of the Municipality to force a place from a man and at the end to dismiss him, saying that payment cannot be granted. Therefore, I request that after due perusal my claim be granted me as it is no fault of mine that the time has become time-barred. Hoping to meet with a favourable and early compliance, and for which act of generosity I shall ever remain grateful.—I beg, &c.,

AHMED MAMOOD SURTI.

No. 2424 of 1894-95.

BOMBAY, *8th May* 1894.

To THE MUNICIPAL COMMISSIONER.

SIR,—I have the honor to return your No. $\frac{878}{10\text{-}4\text{-}94}$ with accompaniment, and to report as follows :—

2. Mr. Ahmed Mamood Surti has, in his application dated 2nd April 1894, given a reference to several notices, letters, &c., addressed to him by the Municipal Commissioner and this Department. These do not relate to one and the same case, but to three different cases in which the Municipality have taken up land adjoining Mr. Ahmed's properties situated in different localities for street improvement. These cases are :—

I.—13·09 square yards of ground taken up from Mr. Ahmed's property situated at the junction of Essaji Street and the Bhandarwada or Samuel Street.

II.—16·31 square yards of land taken up from Mr. Ahmed's property in Hooseinkhan Khalifa Street.

III.—8·5 square yards of land taken up from Mr. Ahmed's property in Nizam Street.

3. As regards case No. I, I would invite your attention to the correspondence ending with this office No. 1022 of 18th April 1894, from which it will be seen that from the opinion at first given by the Municipal Solicitors it was concluded that Mr. Ahmed's claim in this case had become time-barred, and you have in your No. 1586, dated 20th April 1894, informed him to that effect. Taking, however, this case in the light of counsel's opinion recently obtained by the Solicitors, the case has not become time-barred and will not be so till after the expiration of six months from 17th February 1894. The Chief Accountant will, therefore, be asked to pay Mr. Ahmed in this case.

4. With regard to case No. II, I would invite your attention to correspondence ending with this office No. $\frac{13241}{23\text{-}12\text{-}93}$. In this case Mr. Ahmed has produced the requisite title-deeds and has satisfied this Department of his right to receive the compensation and the Chief Accountant has been requested to pay the money to him.

5. In the third case Mr. Ahmed has not yet produced the title-deeds of his property to prove his right to receive the compensation which he was requested to do in your No. 17106 of 21st November 1893. According to the opinion of the Counsel, lately obtained, his claim in this case will become time-barred on the 21st instant. He may, therefore, be requested to produce the title-deeds without further delay.—I have, &c.,

M. C. MURZBAN,
Executive Engineer.

No. 3046 OF *8th May* 1894.

Copy forwarded to the Municipal Secretary for information of the Standing Committee, with reference to their Resolution No. 116, dated 4th ultimo.

It will be seen from the Executive Engineer's letter that compensation for land acquired in Nizam Street cannot be paid until Mr. Ahmed proves his right to receive it by production of title-deeds before the Executive Engineer, which he was asked to do, so far back as 21st November 1893.

He has been asked again to produce the title-deeds as desired by the Executive Engineer, and if he does produce them, his claim will become time-barred on 21st instant.

H. A. ACWORTH,
Commissioner.

Resolved: "That the Commissioner's Memorandum to the Secretary, No. 3046, dated 8th instant, and the accompaniment thereto, be forwarded to the Corporation with reference to Mr. Ahmed Mahamed Surti's application of the 2nd ultimo."

No. 1469.

BOMBAY, *16th May* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman*.
BHALCHANDRA KRISHNA BHATWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHUNKAR YAJNIK; KAIKHOSRO N. KABRAJEE, ESQ.; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSOC. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.
H. A. ACWORTH, ESQ., I.C.S., Commissioner, and the SECRETARY.

The minutes of the Meeting held on the 9th instant, were signed.

Read and *recorded* the following :—

No. 1708 of 1894.

GENERAL DEPARTMENT,
BOMBAY CASTLE, *9th May* 1894.

RESOLUTION OF GOVERNMENT.

His Excellency the Governor-in-Council is pleased to appoint Capt. W. P. Walshe to be a member of the Standing Committee of the Municipal Corporation of Bombay, *vice* Mr. E. B. Carroll, M.I.C.E., resigned.

W. L. HARVEY,
Under-Secretary to Government.

The seal of the Corporation was affixed to the following:—(1) to deed of agreement with Messrs. Mistri, Bhedwar, Vachaghandy & Co., for the supply of earth for covering kutchra deposits during 1894-95; (2) to ditto with Government for lease of land at Sewri.

The seal of the Corporation was affixed to 235 Debentures of the Rs. 23¼ Lakhs Loan (1st instalment of Rs. 13 lakhs) Nos. 2258/59 to 2356/57, 2478/79 to 2526/27, 2545/46 to 2579/80 of Rs. 1,000 each, Nos. 2458/61 to 2474/77 of Rs. 2,000 each, and Nos. 2358 to 2457, 2528 to 2544 and 2581 to 2600 of Rs. 500 each. To 9 attested Duplicate Debentures, Nos. 317 to 320^{NN}, 1013^{NN}, 1676^{NN}, 2513^{NN}, and 2514^{NN} of the Sanitary Works Loan of 1885, and No. 344 of the Tansa Water Works Loan for Rs. 500 each, and one consolidated debenture No. 3423/24 of the Municipal Loan of 1878 for Rs. 1,000.

No. 1922. *Resolved*: "That, as applied for by the Commissioner, in his Memorandum No. 3734, dated this day, sanction be given to the cutting off of water connections, as per list submitted therewith."

No. 1923. *Resolved*: "That the following be *recorded*:—Letter No. 3146, dated 9th instant, from the Commissioner to the Secretary, reporting that he has entrusted the work of paving a portion of the Frere Road footpath from Fort Street to Mint Road, to the Indian Patent Stone Company, at a cost of Rs. 2,970·60. The amount to be debited to the budget provision of Rs. 25,000."

No. 1924. *Resolved*: "That, as applied for by the Commissioner, in his letter No. 3148, dated 9th instant, sanction be given to the purchase from Messrs. Merryweather and Sons, of Longacre, London, of the following articles:—

(1)	3540 feet of Merryweather's very best diagonal woven white fabric rubber lined Fire Hose 2½" diameter in 60 feet lengths, without couplings	£ 376 2 6

	Brought forward...	£	376 2 6	
(2)	6 pairs of polished copper London Brigade pattern hand lamps (small size) with sockets, at side for Hose Reel.....	„	15 0 0	
(3)	Gunmetal suction retaining valves with screws to suit the suction hose of the steam fire Engines...	„	25 10 0	
		£	416 12 6	
	Less, 10 per cent discount	„	41 13 3	
		£	374 19 3	

"The cost of the hose to be debited to the grant of Rs. 6,000, provided in the current year's budget for the purpose, and that of the lamps and valves, to section II, Stores and Stationery, Fire Brigade Budget for 1894-95.

"That, under the terms of Section 72 (3) of the Municipal Act, the Committee dispense with the invitation for tenders, which would otherwise be necessary, as all the Municipal Fire Engines purchased within the last four years were made by these manufacturers.

"That the anticipated excess of Rs. 200 be paid from the Commissioner's Discretional Contingencies, as proposed by the Commissioner."

Considered letter No. 3450, dated 12th instant, from the Commissioner to the Secretary, as under :—

SIR,—When the Budget Estimates for the year 1894-95 were submitted to the Standing Committee negotiations were going on with the Port Trustees for leasing land required for the construction of a temporary chawl for the bigaries of the Health Department. As no site was then decided on, the Health Officer estimated the monthly rent at Rs. 200, and a provision of Rs. 2,400 was therefore made in the budget. Out of this sum Rs. 200 have already been spent, leaving Rs. 2,200 available. But the monthly rent of the ground now selected is Rs. 504, at which rate the Corporation have sanctioned payment for the month of February last, in their Resolution No. 12436, dated 19th idem, and the amount of rent payable at this rate for the current year is Rs. 6,048, whereas the sum available for payment is Rs. 2,200+504, or Rs. 2,704.

Under the circumstances it will be necessary to supplement this sum of Rs. 2,704 by an additional grant of Rs. 3,344 from Surplus Cash Balance, which I request the Standing Committee to recommend the Corporation to sanction.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : "That letter No. 3450, dated 12th instant, from the Commissioner to the Secretary, be forwarded to the Corporation with

No. 1925.

reference to their Resolution No. 12436, dated 16th February last, and with the recommendation that sanction be given to an additional grant of Rs. 3,344 from Surplus Cash Balance, to meet the ground rent payable during 1894-5 to the Port Trust, for land leased for the site of a temporary Chawl for the biggaries of Health Department."

No. 1926. *Resolved* : "That, as applied for by the Commissioner, in his Memorandum No. 3425, dated 12th instant, sanction be given to the transfer of Rs. 84-2-8, from savings in the grant for General Supervision, Executive Engineer's Department, Section III, Surveyors and Draftsmen, to Section II, of same office establishment, to meet allowance payable during the absence of the Record Keeper, Engineer's Office, on two months' leave."

No. 1927. *Resolved* : "That, as applied for by the Commissioner, in his letter No. 3151, dated 9th instant, and with reference to the Committee's Resolution No. 13523, dated 14th March last, sanction be given, under the terms of Section 10 of Act VIII. of 1894, Government of India (the Indian Tariff Act), as per margin, to the addition of one per cent. import duty being added to the amount of bills for articles (galvanized iron sheets and pipes) supplied under the terms of his contract, by Mr. Dhanjibhoy Framji, for flooring with galvanized corrugated iron sheets, the Bassein creek bridges and culverts on the Tansa duct, between Tansa and Ghatkoper."

When Contracts have been entered into amount of increased or decreased duty to be added or deducted.

10. In the event of any duty of customs or excise on any article being imposed, increased, decreased or remitted after the making of any contract for the sale of such article without stipulation as to the payment of duty where duty was not chargeable at the time of the making of the contract or for the sale of such article duty paid, where duty was chargeable at that time ;

(*a*) if such imposition or increase so takes effect that the duty or increased duty, as the case may be, is paid, the seller may add so much to the contract price as will be equivalent to the duty, or increase of duty, and he shall be entitled to be paid and to sue for and recover such addition, and

(*b*) if such decrease or remission so takes effect that the decreased duty only or no duty, as the case may be, is paid, the purchaser may deduct so much from the contract price as will be equivalent to the decrease of duty or remitted duty, and he shall not be liable to pay or be sued for in respect of such deduction.

No. 1928. *Resolved* : "That, as applied for by the Commissioner, in his letter No. 3149, dated 9th instant, sanction be given under Section 169 (1) (*b*)

of the Municipal Act, to the charging of Rs. 2 per diem to the Bombay Tramway Co., for temporary water supply to them in connection with the extension of their line in Babula Tank and Mazagon Roads."

Resolved : " That the following be *recorded* :—Letter No. 3150, dated 9th instant, to the Secretary, from the Commissioner, reporting that he has sanctioned the purchase from Messrs. Richardson and Cruddas, of 8 pieces of copper wire gauze 6′ 5″ × 3′ 8," at Rs. 35 per piece, and 600 square feet of copper gauze sheeting, 2 feet wide, at Rs. 1-9-0 per sq. foot; total Rs. 1,217-8-0, plus 5 per cent. import duty. The cost will be debited to the grant for water works fittings." No. 1929.

Considered letter No. 3348, dated 11th instant, from the Commissioner to the Secretary, as under :—

SIR,—For the completion of the surveys and estimates for the sewerage of those portions of the City which require to be dealt with on the sectional system, the following establishment is required, as it is not possible to spare men for the purpose from the present staff, viz. :—1 surveyor on Rs. 80 per mensem, 1 do. on Rs. 70 do., 1 do. on Rs. 60 do., 2 draftsmen or tracers on Rs. 30 each, Rs. 60 do., 9 lascars on Rs. 10 each, Rs. 90 do. —Rs. 360.

This staff is required (1) to trace the plans and sections for the Parel, Mazagon and Old Race Course, Sectional Districts, and to make such modifications as may be found necessary when all the Sectional Districts have been surveyed; and (2) to take levels, make surveys, and prepare plans, sections and estimates for the Malabar Hill, Khamballa Hill, and Elphinstone Estate Sectional Districts. The Special Drainage Engineer reports that he will require this Establishment for a period of 4 months, and I therefore request the Standing Committee to recommend the Corporation to sanction the expenditure of Rs. 1,440 from Surplus Cash Balance as an advance to be adjusted hereafter against the loan when the works are sanctioned and loan raised. —I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : " That, as applied for by the Commissioner, in his letter to the Secretary, No. 3348, dated 11th instant, and to allow of the completion of the surveys and estimates for those portions of the city which require to be dealt with on the sectional system, the Corporation be recommended No. 1930.

to sanction the employment of the following staff for a period of 4 months at a total cost of Rs. 1,440—namely, for tracing the plans and sections of the Parel, Mazagon, and Old Race Course sectional districts, for making such modifications as may be found necessary when all the sectional districts have been surveyed, and for taking levels, making surveys and preparing plans, sections and estimates, for the Malabar Hill, Khamballa Hill and Elphinstone Estate Sectional Districts :—1 Surveyor on Rs. 80 per mensem, 1 do. on Rs. 70 per mensem, 1 do. on Rs. 60 per mensem, 2 draftsmen or tracers on Rs. 30 each, do. 60 do., 9 laskars on Rs. 10 each, do. 90 do. Total Rs. $360 \times 4 =$ Rs. 1,440 for 4 months.

"The amount to be met from Surplus Cash Balance as an advance to be adjusted hereafter against the Loan when the works are sanctioned and the loan is raised."

Resolved : "That the following be recorded :—Letter No. 3257, dated 10th instant, from the Commissioner to the Secretary, reporting that he has allowed one Mr. Meerabhai Emambhai to quarry stone from Municipal ground at Pawai (area about one acre) for 2 months from 9th idem, on payment of Rs. 30 per mensem per crowbar."

No. 1931.

Read letter No. 3147, dated 9th instant, from the Commissioner to the Secretary as, under :—

SIR,—I have the honor to state that a 24 hours' notice was served under Section 257 of the Municipal Act on one Mr. Ramchandra Balkrishna, requiring him to clean the pipe drain of his premises Nos. 331—337, Falkland Road. But as he failed to comply with the terms of the notice, the work was carried out by the Municipality at a cost of Rs. 11-0-11, as the choke in the pipe drain caused a serious nuisance. Mr. Ramchandra was asked to pay this amount, but he has declined to pay it. The Municipal Solicitors, who were consulted, advise that as the cost of instituting proceedings against him under Section 503 will largely exceed the amount of the claim, further proceedings may be dropped. Under the circumstances there is no alternative but to write off the amount to which I request the sanction of the Standing Committee and Corporation.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : "That with reference to his letter to the Secretary No. 3147, dated 9th instant, the Commissioner be asked to take steps for the recovery, through the Court of Small Causes (but without the employment of the Municipal Solicitors), of the Rs. 11-0-11, due by Mr. Ramchundra Balkrishna, on account of the cleaning of the pipe drain of his house No. 331—337, Falkland Road."

No. 1932.

Resolved: "That the consideration of letter from the Commissioner to the Secretary, No. 2789, dated 5th instant, forwarding lists of special Halalkhor charges, be postponed until the next meeting."

No. 1933.

Read the following letter to the Commissioner :—

BOMBAY, *9th May* 1894.

SIR,—We have the honour to acknowledge your No. 1369 of the 18th ultimo, forwarding us file of papers ending with the Report of the Sub-Committee appointed on the 7th February last, and the Resolution of the Standing Committee of the 11th April 1894.

The Committee ask whether having regard to the provisions of Section 146 (6) of the Municipal Act and the facts as set forth in the papers submitted to the Sub-Committee, the property taxes cannot be recovered from the representatives of the estate of the late Mr. Byramji Jeejeebhoy as the superior lessor under the above section ?

The whole of this land, of which Ward No. 1010 (1) forms a portion originally belonged to the late Mr. Byramji Jeejeebhoy, whose representatives in 1887 granted a perpetual lease of it to one Hari Shridhar in consideration of an annual rent, and he parted with the whole of his right, title and interest in the premises to Mahomed Hussen Muckba with the consent of the representatives of Mr. Byramji Jeejeebhoy, as stated in his Solicitor's (Mr. Khanderao Moroji's) letter to the Commissioner of the 27th Oct. 1892.

We are asked by the Standing Committee whether the representatives of the estate of the late Mr. Byramji Jeejeebhoy are not the superior lessors within the meaning of 146 (2) 6 ? We think not.

We are of opinion that the representatives of the late Mr. Byramji Jeejeebhoy are the Fazendars of the land, and that Mr. Mahomed Hussein Muckba is the occupier holding immediately from the Fazendars (146 (1)), and also the superior lessor (146 (2) (*b*)). To arrive at the above conclusion, it is necessary that the meaning of Fazendar is used in Section 146 (1) should be carefully considered, and its real meaning understood. Three kinds of tenure are in this section referred to, first, that held from Government, second, that held from the Corporation, and third, that held from a Fazendar. According to Sir Erskine Perry this term Fazendar which is not significant in any Oriental tongue is derivable from the Portuguese werd Fazendeiro, meaning " a cultivator, a tiller, a husbandman," and it does not appear that the Portuguese law contains any trace of a tenure similar to that of called Fazendary in Bombay. The tenure has probably therefore grown up in Bombay during the last 200 years from the time when all the swampy portions or those covered by the sea in the low portion of the island belonged to Government and the cultivated portions to the husbandmen or Fazendars. Fazendar land therefore means little more

than lands other than Government lands, and it is in this sense, we take it, that it is used in Section 146 (1). Fazendars in Bombay are the original owners of the soil who either occupy the ground themselves, or part with the occupation to tenants in consideration of receiving a fixed sum annually. In the case before us the representatives of Mr. Byramji Jeejeebhoy are seized of a rent issuing out of the land, but have no title to the land itself, and are accordingly Fazendars within the meaning of 146 (1), and not responsible for the taxes. Mahomed Hussein Muckba is the occupier holding the premises immediately from the Fazendar within the meaning of 146 (1), and he is apparently as to some portion of the land also the superior lessor under 146 (2) *b*.

We note that in some of the letters "Mukba" is referred to as Mahomed Hussen Mukba, and in others as Ahmed Saheb Mukba.

We return the papers.—We have, &c.,

CRAWFORD, BURDER & Co.

No. 3367 of 11th May 1894.

Copy forwarded to the Municipal Secretary for the information of the Standing Committee.

As the Solicitors are of opinion that Mr. Byramji Jeejeebhoy's representatives cannot be held liable for the taxes, the Commissioner has to request the sanction of the Standing Committee to the filing of a declaratory suit as already suggested.

H. A. ACWORTH, Commissioner.

Resolved: "That with reference to the Commissioner's letter No. 23570, dated 2nd February last, the Standing Committee's Resolution No. 386 of the 11th ultimo, and Memorandum No. 3367 of 11th instant, from the Commissioner to the Secretary, sanction be given under Sections 211 and 517 (1) (*j*) of the Municipal Act, to a suit being filed in the High Court, against Sheik Ahmed Mukba, or Mahamed Husein Mukba or Ahmed Saheb Mukba (1) to have it declared that the taxes, Municipal taxes and notices fees set forth in the statement accompanying the Commissioner's letter No. 23570 as above constitute valid charges on the respective properties, included in the statement, and (2) for an order for the sale of such properties in satisfaction of these charges."

No. 1934.

It was agreed that the consideration of the following be postponed until the next meeting:—Letter No. 3683, dated 15th instant, from the Commissioner to the Secretary, requesting the approval of the Committee, under Section 91 (1) of the Municipal Act, to the taking up under the terms of the Land Acquisition Act, of 11 plots of ground required for one of the proposed roads in Agripada and its frontages.

Resolved : "That the consideration of Memorandum No. 2217, dated 28th instant, from the Commissioner, forwarding certain proposals made by Mr. Rebsch, for the keeping of a 'Register of Cheques to be drawn,' be postponed until the next meeting."

No. 1936.

Considered the following :—

No. 5412 of 1894-95.

Bombay, 11*th May* 1894.

To The MUNICIPAL COMMISSIONER.

Sir,—I have the honor to report that I made an examination of the Vehar and Tulsi Lakes and also of the Pawai Lake on Tuesday last. I had the advantage of being accompanied in the inspection by the Executive Engineer, Mr. Marzban, and the Drainage Engineer, Mr. James. I have also had the opportunity of consulting the Water Engineer. I examined the surface of the water and the banks of the lakes carefully. My inspection has confirmed the opinion which I came to, that the impurity in Tulsi water was due to the unusual growth and decay of vegetable matter in the water. Examinations of samples of water from the lake have also supported and confirmed the same opinion. An examination of a sample, collected on the 2nd May, given to me by Mr. Tomlinson, the Water Engineer, charged with vegetable matter, gives the following abnormal results :—

Free Ammonia	·14.
Albuminoid Ammonia	·85.

The samples which I collected on Tuesday last, from the Vehar and Tulsi lakes, give better results, but they indicate not only the Tulsi but the Vehar Lake to be in an abnormal state of impurity from vegetable growths. The results of examination were :—

	Free Ammonia.	Alb. Ammonia.
Tulsi (20 feet under surface)	·07.	·38.
Vehar	·04.	·35.

It appears to me the cause of the unusual growth of vegetable matter in the Tulsi lake has been the abnormal atmospheric conditions, one of which has been visible to all, the clouded sky of the hot season.

The practical question is, what can be done on the occurrence of such a phenomenon as has been observed, resulting in so great an impurity in the water supply. There are only two remedies practicable :—

I. Not to distribute the water (as had to be done).
II. Only to distribute such water as can by filtration be rendered potable and wholesome.

It is, however, difficult to filter a water so impure as that indicated by the sample collected on the 2nd May when the vegetable

impurities have so accumulated and accumulating and decomposing, the removal of them by ordinary filtration is very doubtful. The effect of a water so charged with organic impurities can only be described as dangerous to the public health.

There have been other occasions on which Tulsi Water was very impure and in a dangerous state from organic growths and effete matter in the water.

I will refer to my Annual Report for the year 1879 and to my Quarterly Report for the Fourth Quarter of 1881.

(Health Officer's Annual Report for 1879.)

"Up to the end of March the foul condition of the water might "with some reason be partly attributed to the new pipes; it had, "however, then been running sufficiently long to have scoured all "surface impurities from the pipes, and it was certain the water "would be in no better condition before the monsoon. On the con- "trary, it would be more impure as the supply was drawn off and "the water sank in the lake, the impurities being condensed. In "April I drew special attention to the fearful state of the water "from Tulsi, and it was a question whether public notifications "should not be issued pointing out the absolute necessity of allowing "the water to settle, and of straining and filtering it. The vegetable "impurities in the water were so great that ordinary filters would "not act. They required to be cleaned so frequently that they were "practically not serviceable. And, moreover, I have found it difficult "to preserve the ordinary carbon filter apparatus free from the offen- "sive dead-leaf smell of the water. On the 30th of April a sample "collected from the surface of the lake yielded free ammonia "·70 and albuminoid ammonia ·61; a sample taken at the "same time at between 40 and 50 feet below the surface "yielded free ammonia ·25 and albuminoid ammonia ·40 parts "per million; the organic matter in the water was in a state "of active decomposition, of which the enormous quantity of "free ammonical compounds were the product. The sample "taken from the surface was of a light sherry color, it had an enormous "quantity of vegetable matter in suspension, and exhaled a strong "nasty odour. On the 14th of May a sample collected from the sup- "ply pipe in the Municipal Offices yielded free ammonia ·45 and "albuminoid ammonia ·75 parts per million. A sample collected "from the surface of the lake near the outfall on the 6th of June "yielded free ammonia ·03 and the albuminoid ammonia ·6 parts per "million; and a second sample collected from the centre of the lake "on the same date yielded free ammonia ·04 and albuminoid ammo- "nia ·7 parts per million; both these samples had a light brown color. A "sample collected on the 19th June from the pipe in the Municipal Offi- "ces yielded free ammonia ·33 and albuminoid ammonia ·57 parts per "million. Between this date and the 2nd July the water changed "completely in character; a sample collected on that date yielded "free ammonia ·03 and albuminoid ammonia ·17 parts per million.

"In August the condition of the water again caused anxiety; it was "of a milky color, and on standing a slight flocculant deposit formed. "A sample I examined from a main in Girgaum, yielded free ammonia "·35 and albuminoid ammonia ·34 parts per million, it contained. "·9 grains per gallon of chlorine, and the solids had risen from the "normal amount of between 6 and 9 grains per gallon to 16 grains "per gallon. The milky appearance of the water was, in my opinion, "due to finely divided sand washed down in large quantities from the "hills around the Tulsi Basin by the heavy rainfall."

Health Officer's Report for the Fourth Quarter of 1881.

"I have observed an increasing and towards the end of the year "a dangerous amount of vegetable matter in the Tulsi water. I "bring the impurity of this water supply in this Report to notice, "with a view to demonstrating the necessity of filtration, and the "pressing necessity of the filter-beds being speedily prepared and in "use."

Suggestions have occurred to me as the result of my inspection, and I venture to submit them. I was very much impressed on this occasion by the greater stagnation of the Tulsi water and the few evidences of life other than vegetable matter within it. The contrast between Tulsi and Vehar and Tansa is very great. Fish are abundant in Tansa and also numerous in Vehar, but there are few to be seen in Tulsi. I observed that while the water from the lake had no odour, water taken by me from an aircock half way between Vehar and Tulsi had an odour of decay such as the water delivered in the City had at one time. This water was tepid. I have a suggestion hereafter to make in regard to this. It seems to me that it might be well to consult the Bombay Natural History Society in regard to the Tulsi lake and the fish it might be advisable to bring into the lake from Tansa. Having the Natural History Society, advantage might be taken to secure the assistance of scientific men in the conservancy of the lake.

It would be at once a system of inspection for which nothing would have to be paid.

The suggestion I will offer for the improvements of the Tulsi water are as follows:—

1. Larger filtering area, this is now under consideration.
2. The covering of the main with earth or the painting of the exposed portions white.
3. The removal of all cattle found grazing near the banks of the lake.

I saw many evidences of cattle on the embankment and around the banks of the lake.

4. Consultation with the Bombay Natural History Society as to the conservancy of the lake. This seems to me to be advisable.

Although the object of this letter is not directly in connection with the Vehar supply, still I feel I must make two suggestions in regard to the conservancy of the Vehar lake:—

(I) Cattle ought not to be allowed to graze near the water. There is an establishment, and they should prevent it. If the establishment cannot prevent it, they ought not to be employed.

(II) There are masses of dead weeds in the water. They should be removed and raked out of the water.—I have, &c.,

T. S. WEIR,
Health Officer.

No. 3565 OF 1894-5.

TO THE STANDING COMMITTEE.

BOMBAY, 14*th May* 1894.

Memorandum.

It is remarkable that the analysis of Vehar and Tulsi Water taken on Tuesday, 8th May, should have yielded such approximately similar results. The Vehar Water gave

Free ammonia	Albuminoid ammonia
·04	·35

while on 1st instant *unfiltered* Vehar Water at Bhandarwada gave

Free ammonia	Albuminoid ammonia
·01	·14

The analysis taken at the Malabar Hill reservoir on 1st May was of Tansa Water. A large quantity of Tulsi Water was run off through the sludge pipe on 4th, 5th and 6th May, and the water of the lake seems by this means to have recovered from its abnormal condition. Cattle should, of course, not be allowed to wander near the margin of the lake, and the Water Engineer's attention has been drawn to the Health Officer's remarks on this point. It is rather difficult in such rough country and with cattle pounds some way off to keep the catchment altogether free of them. I will address a communication to the Natural History Society on the subject of stocking the Tulsi Lake with fish. It is evidently of great importance to extend the filter-beds at the Malabar Hill Reservoir, but the Health Officer has in another communication expressed a wish that Tulsi water should be shut off altogether for the two hot weather months. There would be no great difficulty in doing this if my proposals for extending mains in the city so as to enable us to make full use of the Tansa supply were adopted. The prevention of waste by metering all connections in the city would further economize the supply so as to render it adequate, I think, even if deprived of Tulsi for two months. On this important subject I shall ere long address the Corporation.

H. A. ACWORTH,
Commissioner.

Proposed by Bhalchandra K. Bhatawadekar, Esq., seconded by the Hon'ble Mr. Javerilal U. Yajnik—

"That para. 3 of the Health Officer's letter No. 5412, dated 11th instant, be referred to the Commissioner with the request that the Health Officer may be asked for fuller explanation as to why he considers that clouds have an influence on the condition of the Tulsi water."

No. 1937.

Carried.

Resolved : "That the following be *recorded*:— Memorandum No. 3435, dated 12th instant, from the Commissioner forwarding analysis of water," as under :—

No. 1938.

Sample of unfiltered water taken from the inlet well of the Malabar Hill Reservoir, on 1st May 1894.

	Parts per million.
Free Ammonia	·02
Albuminoid Ammonia	·09

Sample of Tulsi water taken from the Tulsi Lake.

	Parts per million.
Free Ammonia	·14
Albuminoid Ammonia	·85

Sample of unfiltered Vehar water taken from the inlet channel to filter of the Bhandarwada Reservoir, on the 1st May 1894.

	Parts per million.
Free Ammonia	·01
Albuminoid Ammonia	·14

Sample of filtered Vehar water taken from filter channel of the Bhandarwada Reservoir, on 1st May 1894.

	Parts per million.
Free Ammonia	·005
Albuminoid Ammonia	·10

Sample of unfiltered Tansa water drawn from a hydrant on 27" Main in Arthur Road, on the 1st May 1894.

	Parts per million.
Free Ammonia	·005
Albuminoid Ammonia	·08

The following return was read and *recorded* :—

Return of fires at Mori Road, Mahim, Tardeo, (Jairaj Balloo Mills) and Quay Street, Mazagon, forwarded with Commissioner's Memorandum, No. 2926, dated the 7th May 1894.*

* See Appendix C.

The following statement* was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes, for the week ending 13th May 1894.

Resolved: "That the following be forwarded to the Commissioner for favour of disposal :—

No. 1940. Letter, dated this day, from Mr. Moreshwar Wishwanath Balkrishna Pradhan, on the subject of the acquisition of land belonging to his grand-father and situate in old Hanuman Lane."

Resolved: "That, as applied for by the Commissioner, in his letter to the Secretary, No.

No. 1941. 3776, dated this day, and under the Pension Regulations, sanction be given to the payment of a monthly pension of Rs. 62-8-0 from 1st November 1893, to Mr. Kharshedji Dhanjibhai Rana, late Inspector, Water Works Department."

BOMBAY, *23rd May* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; THE HON'BLE MR. JAVERILAL UMIASHANKER YAJNIK; KAIKHOSRO N. KABRAJI, ESQ.; K. M. SHROFF, ESQ.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.

H. A. ACWORTH, ESQ., I. C. S., Commissioner, and the SECRETARY.

The minutes of the Meeting held on the 16th instant, were signed.

A note was received from Mr. Hurkisondas Nurrotumdas, apologizing for non-attendance on account of his having to proceed to Mahableshwar for change of air.

The seal of the Corporation was affixed to (1) deed of agreement with Messrs. Bibra Sitaram & Co., for constructing storm-water drain with manholes and water gullies, in Kalachowki Road; (2) ditto with ditto for ditto in Chamar Lane, Parel Road; (3) ditto with Messrs. Mahler and Roscher, for providing and fixing new lanterns and special cocks to the existing 60 incandescent gas lamp burners in Hornby

* See Appendix B.

Road and Church Gate Street ; (4) ditto with the Gas Company, for lighting the street lamps with gas for a further period of one year, from 1st July 1894.

The Seal was also affixed to the following 22 debentures, *viz.*:—1 attested duplicate debenture of the 35 Lakhs Various Sanitary Works Loan, No. 546-50 of Rs. 2,500 ; 13 ditto of the Tansa Water Works Loan, Nos. 13093-94, 17323-24, and 20429-30 of Rs. 1,000 each ; and Nos. 25-30, 32, 16995, 17056 and 377 of Rs. 500 each ; 3 ditto of the Municipal Sanitary Works Loan of 1885, Nos. 817 N. N., 818 N. N., and 1100 N. N. of Rs. 500 each ; 3 consolidated debentures of the 35 Lakhs Various Sanitary Works Loan, Nos. 190-1, 192-93, and 194-95 of Rs. 1,000 each ; and 2 ditto of the Tansa Water Works Loan, Nos. 901-10 and 911-920 of Rs. 5,000 each.

No. 2204.

Resolved : " That, as applied for by the Commissioner, in his Memorandum No. 4409, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

Considered the following :—

The past and present systems of writing off of unserviceable and other Stores.

In recommending the Corporation to sanction the writing off of the Rs. 1,04,540-4-0, being the book loss on the sale by auction and otherwise of unserviceable and other stores enumerated in the accompanying lists, the Standing Committee beg to report that when these lists were placed before them in January last, they appointed a Sub-Committee to examine into and report on the whole question, as previously to that date, the Corporation, during last year, sanctioned the writing off of Rs. 17,131-9-5, on the same account.

The summary of Rs. 1,04,540-4-0 is given by the Chief Accountant as follows :—

The net result of the adjustment of the various stock accounts is as under :—

Surplus articles on hand	Rs.	9,017	15 8
Dead Stock, &c., charged to Budget grants and taken as Surplus in the Stock Returns	„	98,464	12 0
Live Stock charged to Budget grants and taken as Surplus in the Stock Returns...	„	17,623	0 0
Profit by auction sale	„	10	5 4
Profit on sale of Drainage Stores to Contractors	„	8,146	14 9
Profit on sale of Stores to private parties from the Municipal General Stores	„	1,421	2 1
Profit on sale of Water Works Stores to Contractors, &c....	„	3,445	9 0
	Rs.	1,38,129	10 10

Deduct—	Rs.	a.	p.	Rs.	a.	p.
Loss by auction sale of unserviceable stores	55,525	4	6			
Loss by sale of pipes, &c., to Drainage Contractors	876	11	3			
Loss on account of Water Works Stores issued to Departmental Works, &c.	1,809	3	0			
Loss on account of Depreciation of Water Works Stores	10,244	7	10			
Loss on account of fixtures left at the old Municipal Office	178	3	1			
Loss on account of Persian Carpet belonging to the Municipal Commissioner's Department decayed. .	125	0	0			
Loss on account of broken, missing, &c., articles belonging to different Municipal Departments	212	11	4			
Loss on account of value of Dead Stock Articles purchased for the Tansa Works out of Loan funds and erroneously taken into stock as surplus in former years, now written off as their cost already appears under Water Works assets	35,568	11	0			
				1,04,540	4	0

(For which sanction is now applied.)

Already sanctioned by the Standing Committee and the Corporation.—

Loss on account of 30 Dustbins broken and used as fuel	941	13	1			
Loss on account of 87 bullocks sent to Pinjrapole	5,964	15	9			
Loss by death of 124 bullocks ...	8,006	4	4			
Loss on account of 5 bullocks destroyed	355	9	0			
Loss on account of a horse sent to Pinjrapole	205	2	8			
Loss on account of 2 horses died and 2 sold...	1,509	14	4			
Cost of 14, 4" cast iron pipes and 1-42" Smiths' bellows belonging to Messrs. Hirjee and Rowjee, erroneously taken into stock as surplus in previous years, although their value was not paid for at the time, paid in 1892-93, as per Corporation's Resolution No. 12248, dated 16th February 1893	147	14	3			
				17,131	9	5
						1,21,671 13 5
Net profit Rupees... ...						16,457 13 5

At first sight it certainly appears most unsatisfactory that the Corporation should be asked to sanction the writing off of such a very large amount as Rs. 1,04,540-4-0, but as a matter of fact, by far the greater part of the total should have been written off from time to time on account of depreciation from fair wear and tear. But up to the 20th December last, when the Standing Committee sanctioned a Code of rules framed on the basis of the

Government system, there has been no provision for depreciation on account of wear and tear, and in these particular lists the full original value is entered as "loss" on articles of office furniture, some of which appear to have been purchased 40 or 50 years since, and which naturally were utterly worn out and useless. In this way, the above lists contain the item of "loss" on account of Persian carpet, Rs. 125, although the Secretary informs the Committee that this article was purchased in the year 1870, for the Commissioner's room and has done such good service that a fragment of it is still in use.

The item of "loss" by auction sale of unserviceable stores Rs. 55,525-4-6 includes Rs. 14,979-6-3; loss on the sale of old furniture sold on the removal of the Municipality to the new office.

Another item Rs. 30,789-8-8 represents the original cost of old and unserviceable fire engines and fire escapes.

The third large item Rs. 35,568-11-0 is due to the writing of off of certain dead stock articles purchased for the Tansa works out of the Tansa Loan and erroneously taken into stock as surplus in former years. This item does not involve any actual loss as the articles have been or will be used up for the general service of the Water Works Department, but the error ought not to have been committed by the Department concerned.

The large item of Rs. 3,176 included in the Rs. 30,789 as above, loss on the sale of 3 fire escapes is due, it appears, to their being reported on by the present head of the Fire Brigade, as useless for service in most of the crowded streets of the City. The Committee cannot but regret that the indenting for such articles should have been made with apparently so little practical knowledge of the actual requirements of the Brigade.

For the future, the new rules will provide for the depreciation of tools, plant, and office furniture, the only articles borne on the books as recoverable assets, being reserve stock kept for sale or issue on private and departmental works.

Each Department will retain for its own use an inventory showing in a separate column, prime cost and present value of tools and plant, copy of which will be submitted to the Chief Accountant, on 15th April, in each year.

As regards reserve stock, the Rules provide that:—"In issuing stock materials to works, such a rate must be charged, except for those articles of which the rates have been fixed by the Standing Committee, as will provide for losses from depreciation, &c., losses on manufacture or wastage and no charge to profit and loss will be admitted on such account. For articles sold to private individuals, &c., 15 per cent. should be put on the value in addition to the above charges."

JAVERILAL U. YAJNIK.
ACCACIO G. VIEGAS.
K. M. SHROFF.

16*th May* 1894.

Resolved: "That the report of the sub-committee on the past and present systems of writing off of unserviceable and other stores be approved and adopted and forwarded to the Corporation as the report of the Standing Committee, and with the recommendation that sanction be given to the writing off of Rs. 1,04,540-4-0 being the book loss on the sale by auction and otherwise, of unserviceable and other stores as per summary given in the report."

No. 2205.

Resolved: "That, as applied for by the Commissioner, in his Memorandum No. 4174, dated 21st instant, to the Secretary, sanction be given to the transfer of Rs. 375, from savings in the grant for the Executive Engineer's Department, General Branch, surveyors and draftsmen, to Streets and Buildings, to meet the cost of acting arrangements, owing to the absence of the Chief Inspector on three months' leave."

No. 2206.

At the request of the Commissioner the following item was *withdrawn* from the agenda paper for the present:—Letter No. 3683, dated 15th instant, from the Commissioner to the Secretary, requesting the approval of the Committee, under Section 91 (1) of the Municipal Act, to the taking up, under the terms of the Land Acquisition Act, of 11 plots of ground, bounded by red lines, on the tracing submitted; the ground being required for one of the proposed roads in Agripada and its frontages.

Resolved: "That, as applied for by the Commissioner, in his letter No. 4065, dated 18th instant, the Committee approve, under Section 91 (1) of the Municipal Act, of his applying to Government to take up, under the Land Acquisition Act, 65·33 square yards of ground, or thereabout, as shown in yellow colour on the plan marked A, dated 8th March 1894, and filed in Supplement to Minute Books; the ground being required for the improvement of Cavelwadi.

No. 2208.

No. 2209. On the proposal of the Hon'ble Mr. Javerilal U. Yajnik, it was agreed that the following be transferred to the List of outstanding business :—"Letter to the Secretary, No. 2789, dated 5th instant, from the Commissioner, forwarding lists showing the special Halalkhor charges levied on properties, under Section 172 of the Municipal Act.

Considered letter to the Secretary, No. 4172, dated 19th instant, from the Commissioner, as under :—

SIR,—Under the terms of the contract entered into with Messrs. Macbeth Brothers & Co. for the supply of a Green & Co.'s economizer, which was sealed with the seal of the Corporation, under the Standing Committee's Resolution No. 12771, dated 28th February 1894, the contractors are to be paid

for economizer	.....	£ 299,
„ connection pipes	.....	Rs. 250,
„ thermometer	.....	„ 25.

According to the rate of exchange ruling at the time the contract was let, viz., 1s. 3d., the total cost amounted to Rs. 5,059, which was within the grant of Rs. 5,250 sanctioned by the Corporation in their Resolution No. 3694, dated 17th July 1893. But according to this day's rate of exchange (1s. $\frac{5}{8}$d.) the equivalent of £299 comes to Rs. 5,683-15-4, thus causing an excess of Rs. 624-15-4 on the contract amount, and if there is a further fall in exchange, the excess will be still more. It is impossible to say what the rate of exchange will be on the day of payment.

Under the circumstances, I have the honour to request the sanction of the Standing Committee and the Corporation to the payment of £299 at the rate of exchange ruling on the day of payment and to the excess thereby caused on the sanctioned amount being met out of savings in the grant for new works at Love Grove.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 2210. *Resolved:* "That letter from the Commissioner, to the Secretary, No. 4172, dated 19th instant, be forwarded to the Corporation, with reference to their Resolution No. 3694, dated 17th July 1893, sanctioning the purchase of a steam economizer for Love Grove Pumping Station at £299 ; and with the recommendation that sanction be given to the payment of Rs. 624-15-4, additional, being difference between the rate of exchange when the contract was

let, 1s. 3d., and that of this day's figures, namely, 1s. ⅛d., to be met from savings in the grant for new works at Love Grove."

It was agreed that the following be transferred to the list of outstanding business :—Memorandum to the Secretary, No. 2217, dated 28th ultimo, from the Commissioner, forwarding certain proposals made by Mr. Rebsch, for the keeping of a register of cheques to be drawn.

No. 2212. *Resolved :* "That following be *recorded* :—Letter No. 4102, dated 19th instant, from the Commissioner to the Secretary, reporting that he has sold the right of cutting grass from a piece of Municipal ground near the Storm Water Reservoir, at Mahalakshmi, for one year, from 1st June 1894, for Rs. 75, to Messrs. Hasana Balloo and Malloo Sayaboo.*

No. 2213. *Resolved :* "That the following be *recorded* :—Memorandum No. 3783, dated 16th instant, from the Commissioner to the Secretary, reporting, with reference to the Standing Committee's Resolution No. 4484, dated 3rd October 1888, the transfer on the 7th instant of Rs. 1,000, from the 6 per cent. Municipal Loans Sinking Fund Deposit Account to the Municipal General Fund pass-book."†

No. 2214. *Resolved :* "That the following be forwarded to the Commissioner for disposal, and that the applicant be informed accordingly :—Petition from Hadji Cassum Hadji Ebrahim, on the subject of granting street occupation permits in the case of Gyarvi and Barvi ceremonies."

No. 2215. *Resolved :* "That the following be forwarded to the Corporation, with reference to the Committee's Resolution No. 1004, dated 25th April 1894, and the Corporation's Resolution No. 2152, dated 21st instant, stating that they have no power to exempt petitioners from payment of the taxes in question"—

"Further petition to the Corporation, dated 15th idem, from Hadji Habib Mahomed and others, request-

* The right has been sold for the first time this year.

† The Acting Chief Accountant reports to the Commissioner that there is no balance now standing to the credit of the above deposit account.

ing that in consequence of the fire in Frere Road, they may be exempted from the payment of the Municipal taxes and fees."

Resolved : "That the Progress Report of new works in course of construction up to the end of March 1894, be laid on the table and brought on for consideration next week.

No. 2216.

Considered the following :—

MEMORANDUM ON THE DEFECTIVE WATER SUPPLY, APRIL-MAY, 1894.

1. The immediate cause of the deficient supply was the bad quality of the Tulsi water delivered into Malabar Hill Reservoir, which necessitated its being shut off on Friday, the 27th April.

2. This closure reduced the quantity by about 3½ millions of gallons daily, leaving about 29 millions of gallons from Tansa and Vehar, which quantity has been distributed since the 27th April.

3. 29 millions daily has failed to give constant supply at high pressure, because (1) of the wilful waste and carelessness of consumers; (2) of the want of adequate distribution main for bringing the Tansa water forward from Chinchpokli (where the 48-inch main ends) into the City; and (3) insufficient service Reservoir accommodation.

4. The effective preventive of waste will be the adoption of meters on all supplies. A full report on this subject has been submitted.

5. The necessary distribution mains have already been recommended by the Standing Committee to the Corporation for sanction, and the proposals are before a Committee of the Corporation. One connection of great importance has already been sanctioned, but cannot be carried out, because the G. I. P. Railway Company refuse to allow us to connect the Tansa 48″ and Vehar 32″ mains at Chinchpokli except on prohibitive conditions. Everything is in readiness and the work could be done in less than one week.

6. Meanwhile, there is only southwards from the Tansa 48″ main at Chinchpokli a 27″ main in Arthur Road and the 14″ main in Parel Road. If the 27″ main be appropriated for supplying Malabar Hill Reservoir, the city cannot get a supply. And if it be devoted to supplying the city, no water will flow to Malabar Hill Reservoir. The Tansa pressure is about 60 lbs. (or 140 feet) less than the Tulsi pressure, and there is only 50 feet fall between Ghatkoper and Malabar Hill Reservoir. Hence the difficulty in passing water into Malabar Hill Reservoir. Unless there is a fair storage in the Reservoir the extra demand in the morning and evening in Fort and Colaba cannot be met, and therefore the pressure falls off there.

7. In spite of these difficulties such a supply has been maintained as reduces the statement publicly made, "that in Byculla, the Fort and Colaba, householders only get two hours' supply a day," to a grossly inaccurate one, unless the "houses be held by the holders"

on the 5th storey only, Byculla proper has continued to enjoy constant supply at high pressure, and I append statements shewing that full pressure has been given at about 7 hours daily (except on the 1st instant) to Fort and Colaba, besides a ground floor supply at other hours. The sluices have never been entirely closed, and not for a single moment have we been unprepared for fire. Doubtless for 6 days there has been inconvenience caused by the smaller number of hours supply at full pressure, but no advantage can arise out of exaggeration or hasty statements based on partial information. Other portions of the City have suffered some, but not serious inconvenience.

8. The storage of offensive Tulsi water has been got rid of and the cleaning of the settling basin will be completed to-day, and that of other portions, together with the repair of the floors of the vaults, are in progress. Unless some further accident occurs we expect to continue a supply which will meet all reasonable requirements. Sufficient allowance does not appear to have been made for the time required to empty a large reservoir and clean it out prior to commencing the storage of Tansa water therein. It is yet only six days since the Tulsi supply was stopped.

9. The filters at Malabar Hill are only large enough to filter efficiently about one half of the supply ; the balance mixes with the filtered water and the mixture is supplied to the City. This accounts for the generally inferior quality of the Tulsi supply and the necessity for periodic emptying of the Reservoir to remove the accumulated settlings. Proposals for extensions of filters have been from time to time discussed, and at the present time the proposals of the Municipal Commissioner for constructing 54,000 sqr. feet of additional filters are receiving favourable consideration from a Sub-Committee of the Standing Committee to whom the papers have been referred.

10. I trust, I have shewn that, however well founded the present complaints may be, the cause thereof is not in the failure of any constructed works to yield the quantity of water they were designed to yield (in fact Tansa is giving 25 per cent. *more*), and I do not think it is reasonable to expect a supply of irreproachable quality without efficient filtration. The necessity for additional reserve in or near the City, for extensions of distribution mains for the Tansa supply and for additional filters has long been foreseen, and the proposals already sanctioned by the Corporation (for connections at Chinchpokli and for additional filters for Vehar supply at Bhandarwada Reservoir), and those under its consideration are sufficient evidence of its intention to put the finishing touches to its water-supply system. The most difficult matter is, however, the suppression of waste, and for this the meter system alone will be thoroughly effective.

11. The supply to the upper part of the Ridge, Malabar Hill, must always be by pump, because the houses are above the water in the Reservoir. The ordinary supply is given by a Turbine pump driven by the water on its way from the Reservoir to supply the City. As there was no water in the Reservoir on Tuesday a fire-engine had temporarily to take the place of the Turbine, but its services have already been dispensed with, as we have now enough water in the Reservoir to drive the Turbine.

12. I am not aware who promised, nor do I think any one did promise, that the Tansa supply, minus service reservoir, minus a complete distribution system for its supply and plus great and reckless waste would afford a constant supply at high pressure for 20 years to come. It does not, cannot, and will not, and that fact has been repeatedly put forward by this Department. It was not a reasonable idea to entertain and should be dismissed. Reverse the signs above, and the idea would be realized.

S. TOMLINSON, M. INST. C. E.,
M. AM. SOC. C. E., M. AM. W. W. ASSOC.,
Water Engineer.

3rd May 1894.

Pressure at Chaopati on 24" Main supplying Girgaon and Dhobi Talao.

Hours.	Before Tulsi shut off.		After Tulsi shut off (at 8 a.m. on 27th April 1894).					
	25th April.	26th April.	27th April.	28th April.	29th April.	30th April.	1st May.	2nd May.
			Friday.	Saturday	Sunday.	Monday.	Tuesday.	Wednesday.
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
4 a. m.	40	37	38	28	31	30	35	5
5 "	44	43	44	26	30	30	34	4
6 "	30	31	30	25	25	29	29	52
7 "	29	29	29	25	23	28	28	35
8 "	29	29	29	25	22	24	25	37
9 "	29	30	29	9	20	20	20	40
10 "	20	30	14	6	17	17	12	8
11 "	18	18	12	6	9	14	12	8
12 noon	14	14	11	6	8	14	13	8
1 p. m.	14	14	10	6	1	12	13	8
2 "	14	13	9	6	11	11	13	8
3 "	14	12	8	7	12	10	13	8
4 "	14	12	7	7	14	10	34	8
5 "	33	33	29	25	27	25	34	54
6 "	34	34	28	26	27	25	34	55
7 "	35	35	30	28	29	24	7	56
8 "	29	29	...	11	25	...	...	58
9 "	...	...	...	...	...	...	...	59

S. TOMLINSON, M. Inst. C. E.,
Water Engineer.

Bombay, 3rd May 1894.

Pressure at Chaopati on 24″ Queen's Road Main supplying Fort and Colaba.

Hours.		Before Tulsi shut off.		After Tulsi shut off (at 5 a. m. on 27th April 1894.)					
		25th April 1894.	26th April.	27th April.	28th April.	29th April.	30th April.	1st May.	2nd May.
				Friday.	Saturday.	Sunday.	Monday.	Tuesday.	Wednesday.
		lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
4	a.m.	41	40	40	64	12	16	37	6
5	„	26	20	22	65	12	15	36	6
6	„	13	9	8	63	30	30	30	55
7	„	65	64	64	59	32	32	29	51
8	„	64	64	64	61	60	59	27	57
9	„	64	64	64	61	59	58	22	58
10	„	85	64	65	10	58	58	8	8
11	„	65	65	65	9	10	13	8	8
12	noon.	15	16	13	9	10	12	8	8
1	p. m.	16	15	12	9	9	11	8	8
2	„	16	15	11	9	13	10	8	7
3	„	16	14	10	9	15	9	8	42
4	„	16	14	10	9	15	9	35	44
5	„	64	64	63	60	59	58	35	55
6	„	65	65	64	61	59	58	35	56
7	„	65	65	64	62	60	59	7	57
8	„	31	31	.....	14	22	...	...	60
9	„	.....	.....	.....	.....	...	...	...	61

S. TOMLINSON, M. Inst. C.E.,
Bombay, 3rd May 1894. W. Water Engineer.

No. 985 OF 1894-95.

Bombay, 3rd May 1894.

To THE COMMISSIONER,
THROUGH EXECUTIVE ENGINEER.

SIR,—I have the honor to forward memo. on the defective water supply prepared at your request. As directed by you copies have been furnished to the press.—I have, &c.,

S. TOMLINSON, Water Engineer.

No. 1211 OF 1894-95.

To THE COMMISSIONER,

THROUGH THE EXECUTIVE ENGINEER.

BOMBAY, 12*th May* 1894.

SIR,—I have the honour, in continuation of this Office No. 985, of the 3rd instant, to report further on the subject of the supply from Tulsi Lake. 2. On Friday, the 4th instant, I examined the Tulsi Lake, having previously taken samples from the pipe at Bandora and found them objectionable. I found the water in the Tulsi Lake in its usual condition, that is, containing much vegetable matter, but free from that distinct offensive taste and smell which had been experienced in Bombay. The highest (5th) outlet was above water level; the second was just below the water level and open: the 3rd about 13 feet below the water level and 27 feet above the bottom of the Lake and open. The second and lowest (first) outlets were closed. The contents of the Lake about 1,046 millions of gallons. 3. I then found that the water at the end of the tunnel which had been standing in the 42″ outlet pipe for one week, that is, since the supply was shut off from Bombay was offensive, and accordingly opened the 24″ clearing Sluice full. After running for about an hour, and for some time after the water from the Lake itself had been discharging, the offensive smell disappeared and the water was of similar quality to that in the Lake. This condition being secured (about 6 P.M. on Friday) the supply was sent on and the main was flushed out at Bandora for about 24 hours. On Saturday, the discharge at Bandora being satisfactory, the supply was brought forward to Malabar Hill Reservoir and taken into the Settling Basin. After quarantine therein until Tuesday, (8th) when the Basin was filled, and both the water stored and that coming in from Tulsi being free from the taste and smell which were so objectionable, the Tulsi Water was again supplied to the City and up to the time of writing there is no complaint as to quality, and the complaints as to quantity have also, of course, disappeared with the distribution of the full supply in the usual manner. 4. The quantity of water run out from the Lake through the outlet main was about 70 millions of gallons: equal to about 1-152 of the total contents of the Lake. 5. Why did the water smell and taste as it did from about the 22nd or 23rd April until the outlet main was flushed out? 1. It was not due to the condition of Malabar Hill Reservoir because the complaints were as loud, if not louder, from those who received the water without its going near the Reservoir, as from those supplied from the reservoir, *e.g.* the villagers at Warli and the dwellers on Pedder Road and Malabar Hill who were being supplied with water direct from the main. 2. It was not caused by the accumulation of deposit in the Tulsi Lake itself because the arrangements for drawing off have not been altered, except that the 4th (higher) inlet of the two open is now practically bare, owing to the large quantity run off and the whole of the water has to be taken from the 3rd (lower) inlet about 13 feet

below water level, and the full flush at the rate of probably 70 millions of gallons per day, did not bring turbid water but water, as already stated, of the satisfactory quality lying on the surface of the Lake. So far as I can form a judgment, there is no doubt the quality of the water in the Tulsi Lake is improving, and I confirm what I wrote in this office No. 541, of the 4th May 1888. "The "Tulsi water is, so far as my observation goes, and comparison with "reports of previous years, rapidly improving in quality. The "brown tinge from suspended inorganic matter is disappearing; in "its place, a vegetable growth similar to that in Vehar, is rapidly "increasing, and after a few years more, it appears probable, the two "waters will be of a similar character." This statement appears in a letter recommending additional filters and pointing out how necessary filtration was and how this vegetable matter necessitates a full sand area for its complete removal. 6. The trouble was caused, in my opinion, by the increased temperature of water affecting the growth and deposits of sponge in the outlet tower and 42″ outlet main. In the outlet tower 6 feet in diameter and the 42″ outlet main to the end of the tunnel about 600 feet, the ordinary flow of water can only be about $\frac{2}{3}$rd * foot per second, when the 24″ main from the end of the Tulsi Tunnel is discharging full into the Malabar Hill Reservoir at a velocity of 2* feet per second. The circumstances are, therefore, favourable for growths of sponge, and these we find both on stones and iron-work in the Lake; on branches of trees around the lake and on the sides of the pipes when they fail. Similar growths are also found in the Vehar Lake and pipes. I attribute the improved condition to the deposits having been removed by the flush-flow above described at the rate of 13 feet per second, and if I be right in this conclusion, the difficulty is not likely to recur because care will be taken to pass the surplus water in the monsoon through the tunnel instead of over the Waste Weir, both channels eventually debouching into Vehar Lake, and short periods of flushing can take place also during the fair season. In the 24″ main itself, it is not probable that flushing will remove the deposits because a sufficiently high velocity cannot be obtained and cleaning the pipe (by scrapers worked by the water pressure) may have to be resorted to if it should be found that the water deteriorates between Tulsi and Malabar Hill Reservoirs. I append a statement shewing the particulars of storage in, and draw off from, Tulsi Lake in April and up to date; and of the temperature of the water, which, it will be noticed, rose from 78° F. on the 1st April to 83° F. on the 23rd of that month. 7. In putting forward the above explanation which I believe to be the true one, I, of course, lay myself open to a charge, not perhaps of neglect—for no one has instructed me in the matter—but of want of foresight in not flushing out the outlet main before and thereby preventing the trouble. I can only ask that those who press home that charge will, when doing so, explain more satisfactorily than I have been able to do, why on a particular day the water suddenly changed its taste and smell to one never known before—so far as I am aware—and how I could be expected to anticipate such a change at this particular time, and

* When the main was new and its discharge about 30 per cent. greater than at present, these velocities would be correspondingly increased.

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why the arrangements which gave general satisfaction up to the 22nd April should suddenly fail to do so on that date. 8. It may not be comforting, but it is perhaps well to remember, that almost every water-supply has trouble like this at times. I know of one supply which having been uniformly satisfactory for over 20 years suddenly developed an intolerable smell and taste for a time. It appears in Lisbon at the present moment, there is unusual trouble, and the experience is common in America during the summer, sometimes for a few days: sometimes for weeks, and in some cases, for months. For these smells sponges are responsible in many places, and I am not aware of any means for stopping their growth inside pipes and about reservoirs: they are, of course, very common in Bombay, and more than 40 years ago were fully described by the late well-known Surgeon H. J. Carter. I am not aware, however, why sponges impart such an objectionable taste and smell to water, except that animal excreta are always objectionable and those from sponges are probably no exception; nor do I know why they or their excreta become particularly offensive with a higher temperature. There is, however, no doubt that the state of the atmosphere and the temperature of the water affect the growths of animal and vegetable life in water: and I believe it is pretty well established that at night and during cloudy weather the vegetable growths tend to rise, some of the variations in filtration in open filters are explicable only, so far as I know, by the tendency of the growths to rise to the surface at night and when the sky is clouded. 9. The quality of the water, as received into Malabar Hill Reservoir, is being frequently examined as to its appearance, taste, and smell.—I have, &c.,

S. TOMLINSON, M. Inst. C.E.,
Water Engineer.

Particulars of Tulsi Lake, April 1894.

Date.	Height of Water.	Fall Feet.	Temperature.	Capacity of the Lake at Millions of Gallons.		
1894.				T.H.D.	Capacity.	Loss in days.
April 1	442·35	...	6 A.M. 78 F.			
„ 2	442·30	...	78			
„ 3	442·225	...	78			
„ 4	442·125	...	78			
„ 5	442·05	...	78	442.	1175,500,000	
„ 6	441·975	...	78			
„ 7	441·9	...	79			
„ 8	441·825	...	79			
„ 9	441·775	...	Noon 83 6 P.M. 82 6 A.M. 80			
„ 10	441·725	...	80			
„ 11	441·625	...	80			65,100,000
„ 12	441·55	...	80			13 days.
„ 13	441·475	...	80			
„ 14	441·40	...	82			
„ 15	441·325	...	82			
„ 16	441·25	...	Noon 85 6 P.M. 84 6 A.M. 82			
„ 17	441·15	...	82			
„ 18	441·05	...	82	441.	1110,400,000	
„ 19	441·95	...	82			
„ 20	440·85	...	82			
„ 21	440·75	...	82			
„ 22	440·65	...	82			
„ 23	440·55	...	Noon 86 6 P.M. 84 6 A.M. 83			
„ 24	440·45	...	83			
„ 25	440·375	...	83			
„ 26	440·3	...	83			
„ 27	440·2	...	83	Vehar ed 8 shut	Sludge open- A.M. Supply off Sluice Hou se 8 P.M.	22nd & 23rd complaints of smell and taste received. 63,100,000 11 days.
„ 28	440·1	...	6 A.M. 83° F.		.....	
„ 29	440·0	...	84	440.	1047,300,000	
„ 30	439·97	...	Noon 87 6 P.M. 85 6 A.M. 84			4,597,000 5 days.
May 1	439·95	...	6 A.M. 84			
„ 2	439·95	...	84			
„ 3	439·925	...	84			
„ 4	439·925	...	84	439·925.	1042,703,000	
„ 5	439·55	...	84		.....	56,703,000 2 days closed 12 noon.
„ 6	439·025	...	84	439·025.	986,000,000	Sunday.
„ 7	438·8	...	Noon 88 6 P.M. 86 6 A.M.	438·8,	974,100,000	11,900,000 day
				438·0.	926,500,000	

4th Bandora Sludge opened 10 P.M., and left open until 5th 6 P.M., at 6-35 water came into Malabar Hill Reservoir again.

No. 3359 OF 1894-95,

To THE COMMISSIONER. *Bombay, 19th May* 1894.

Forwarded to the Municipal Commissioner.

M. C. MURZBAN, Executive Engineer, Municipality.

No. 4218 OF 21st May 1894.

Forwarded to the Standing Committee.

H. A. ACWORTH, Commissioner.

Proposed by Kaikhosro N. Kabraji, Esq., seconded by Bhalchandra K. Bhatawadekar, Esq.—

"That the following be forwarded to the Committee appointed by the Corporation on the 21st instant, to investigate and report on the matter of the unsatisfactory condition of the Tulsi water."

No. 2217.

Memorandum No. 4218, dated 21st instant, from the Commissioner, forwarding reports, No. $\frac{W.}{985}$, dated 3rd May, and No. 1211, dated 12th of the same, from the Water Engineer to the Commissioner, on the subject of the defective water-supply of April-May, 1894.

Carried.

The following return was read and *recorded* :—

Return of fires at Stone Bandar and Falkland Road, forwarded with Commissioner's Memorandum, No. 3577, of 14th May 1894.*

The following statement† was laid on the table .—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes for the week ending 20th May 1894.

Resolved: "That the following be *recorded* :—Letter No. 4327, dated 22nd instant, to the Secretary, from the Commissioner, reporting that he has sanctioned the purchase of 100 tons of Powell's Dufferin Cardiff Coal, from Mr. Merwanji Pestonji Master, at the rate of Rs. 19 per ton, delivered at the Municipal Workshops. The amount to be met from the grant of Rs. 52,000 provided in the current year's Budget for the purchase of stores, &c., for the shops."

No. 2219.

Resolved :—"That, as recommended by the Secretary, sanction be given to two months' privilege leave being granted to Mr. L. W. Michael, office manager, Corporation and Standing Committee's office, from 5th proximo.

No. 2220.

"That sanction be given to the temporary employment of a clerk during that period, on Rs. 30 per mensem, to the debit of savings on fees payable to Councillors."

* See Appendix C. † See Appendix B.

BOMBAY, 30*th May* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

COWASJEE HORMUSJEE, G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; THE HON'BLE MR. JAVERILAL UMIASHANKER YAJNIK; KAIKHOSRO N. KABRAJEE, ESQ.; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L. M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPTAIN W. P. WALSHE;

H. A. ACWORTH, ESQ., I.C.S., Commissioner; the WATER ENGINEER; and the SECRETARY.

On the motion of K. M. Shroff, Esq., seconded by A. G. Viegas, Esq.—

Cowasjee Hormusjee, Esq., was voted to the chair.

The minutes of the Meeting held on the 23rd instant, were signed.

The seal of the Corporation was affixed to (1) deed of agreement with Messrs. Sorabji Shapurji & Co., for the supply of iron castings ; (2) with Messrs. Richardson and Cruddas, for the supply of copper wire gauze ; (3) between Mr. Muncherji Pestonji Choksi and the Corporation, securing to the Municipality the right to acquire, at any future time, the set-back of property, Nos. 321-323, Lohar Street, without payment of any compensation in respect of the unauthorised work indicated on the plan annexed to the deed, and at the rate of Rs. 15 per square yard for any land shown on the plan to be there taken up, inclusive of any loss, damage or expense sustained by him by reason of such acquisition ; (4) to ditto between Bai Navibai, widow of Kallianji Ladha, and the Corporation, securing to the Municipality the right to acquire, at any future time, the set-back of premises Nos. 358-368, situate at the junction of Bora Bazaar Street and Mangesh Senoy Street, without payment of any compensation in respect of the unauthorised work indicated on the plan annexed to the deed, and at the rate of Rs. 30 per square yard, for any land shown on the plan, to be there taken up, inclusive of any loss, damage or expense sustained by her by reason of such acquisition.

The seal of the Corporation was affixed to 10 attested Duplicate Debentures of the Municipal Sanitary Works Loan of 1885, Nos. 36^{NN}, 235^{NN}, 237^{NN}, 1224^{NN}, 1225^{NN}, 2595^{NN}, 2796^{NN}, 2797^{NN}, and 3163^{NN}, and 3164^{NN} of Rs. 500 each and to 44 attested Duplicate Debentures of the Bombay Municipal (Drainage) Loan of 1878, Nos. 1985 to 2010, 2421 to 2424, 2766, 2767, 2769 to 2777, and 3452 to 3454, of Rs. 500 each.

No. 2300. *Resolved* : "That, as applied for by the Commissioner, in his Memorandum No. 4476, dated 24th instant, sanction be given, under Section 351 (2) of the Municipal Act, to the removal of the following structure built without permission :—

Name of owner.	Where.
Mr. Rastomji Cowasji Patel	Shed at Girgam Road."

No. 2301. *Resolved* : "That, as applied for by the Commissioner, in his Memorandum No. 4939, dated this day, sanction be given to the cutting off of water connections, as per list submitted therewith."

It was agreed that the consideration of the following be postponed until the next meeting :—Report of the Sub-Committee on the subject of the construction of filter-beds at the Malabar Hill Reservoir.

No. 2302. *Resolved* : "That the following be *recorded*:—Letter No. 4613, dated 25th instant, from the Commissioner to the Secretary, reporting that he has sanctioned the purchase of 18 and 20 tons of smithy nuts coal for the water works stores and the Workshops, from Messrs. C. J. Khambata and Co., at Rs. 24 and Rs. 23-11-0 per ton respectively. The cost of the former, Rs. 432, and that of the latter, Rs. 473-12-0, to be debited respectively to the Water works materials and Workshops stores grants."

No. 2303. *Resolved* : "That, as applied for by the Commissioner, in his letter to the Secretary, No. 4703, dated 28th instant, and under the terms of Section 69 (*e*) of the Municipal Act, sanction be given to the variation of the contract with Messrs. Bulkley and Co., for the Colaba Sewerage works, whereby an interim payment of Rs. 12,500 may be made to them for works partially completed."

Read letter No. 4656, dated 25th instant, from the Commissioner to the Secretary, as under :—

SIR,—With reference to the Resolution of the Corporation, No. 12138, dated 12th February last, sanctioning the hiring of 20 carts with bullocks, for the removal of refuse, at a monthly cost of Rs. 697-8-0, and with reference to the Resolution No. 1416, dated 7th instant, sanctioning the hiring of additional 30 carts with bullocks and drivers for one month, at a cost of Rs. 1,046-4-0, I have the honor to state that the Health Officer requests that he may be allowed to retain these 20 and 30 carts up to the 30th September next, as out of the 100 pairs of bullocks which he required for the Health Department, he was able to select 31 pairs only, though Messrs. Kharsetjee and Sons, our agents at Kirkee, had collected a large number of animals for inspection. Owing to the lateness of the season and the scarcity of fodder, a great number of the bullocks were not, in the opinion of the Health Officer, fit for immediate work in the Health Department, and he had, therefore, no alternative but to reject them. The total cost of the hiring of these 50 carts up to 30th September next will be Rs. 9,067-8-0, which can be met out of savings in the feed grant, Section II., Labour Scavengering Branch, Health Department Budget, for the current year. Under the circumstances I request the sanction of the Standing Committee and the Corporation to the retention of the 50 carts with bullocks and drivers up to 30th September 1894, and to the payment of the cost thereof out of the savings above referred to.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : "That, letter No. 4656, dated 25th instant, from the Commissioner to the Secretary, be forwarded to the Corporation with reference to their Resolutions No. 12138, dated 12th February last, and No. 1416, dated 7th instant, and with the recommendation that sanction be given to the continuance of the employment up to 30th September next, of 50 carts and bullocks for the Health Department, the hiring of which was sanctioned in the foregoing resolutions. The total cost, Rs. 9,067-8-0, to be met out of savings in the feed grant, Section II. Labour Scavengering Branch."

No. 2304.

Resolved : "That, as applied for by the Commissioner, in his Memorandum to the Secretary, No. 4675, dated 28th instant, sanction be given to the Tramway Company being allowed a

No. 2305.

supply of water in connection with the removal of their lines between Arthur Crawford Markets and Bori Bunder on payment of Rs. 2 a day."

Read letter No. 4702, dated 28th instant, from the Commissioner to the Secretary, as follows :—

SIR,—With reference to the Resolution of the Standing Committee, No. 12060, dated 15th February 1893, accepting the tender of Mr. Sayaji Naguji, for the work of filling in a portion of the Babula Tank for constructing thereon a fire brigade station and quarters for the Chief Inspector Water Works, I have the honour to request the sanction of the Standing Committee to the work of pitching the slopes of the embankment, at a cost of Rs 4,673, being entrusted to the same contractor in continuation of his present contract which will expire on the 3rd proximo, and to the contract time being extended by three months, which period the Executive Engineer recommends should be given, as the work is to be done during the rains.

The cost can be met out of savings in the grant for filling.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 2306. *Resolved* : "That, as applied for by the Commissioner, in his letter to the Secretary, No. 4702, dated 28th instant, sanction be given under Section 69 (E) of the Municipal Act, to the variation of the contract with Messrs. Sayaji Naguji and Co., for filling in a portion of the Babula Tank, for the construction thereon of Fire Brigade station and quarters for Chief Inspector, WaterWorks, whereby the work of pitching the slope of the embankment shall be entrusted to them at a cost of Rs. 4,673, and the contract time extended by three months. The cost to be met from the grant for such filling in."

No. 2307. *Resolved* : "That the following be *recorded* :—Memorandum No. 4576, dated 25th instant, from the Commissioner to the Secretary, forwarding report from the Chief of the Fire Brigade, stating his reasons for considering that the fire at Quay Street, Mazagon, on the 5th idem, was the result of incendiarism."

Considered the Progress Reports, up to the end of March 1894, in course of construction.*

* *See* Appendix D.

The following return was read and *recorded* :—

Return of fires at Currey Road, Albion Place, Byculla, Bunyan Road, Pydhoni and Haines Road, Byculla, forwarded with Commissioner's Memorandum No. 4529, dated the 21st May 1894.*

The following statement † was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes, for the week ending 27th May 1894.

Read the following letter :—To THE CHAIRMAN.

DEAR SIR,—We beg to draw the attention of the members of the Standing Committee to a memo. of Mr. Geary's herein enclosed, in which you will observe he states that his rates are lower than our contract by 15 per cent. and they still leave him a considerable profit.

When considering the tenders it was stated before the Committee that it was impossible for a new press to do the work at lower rates than ours and supply the same qualities of paper as were used by us for the last seventeen years.

We are now informed and believe that the new contractor has been allowed to use Indian mill papers instead of English, owing to an import duty of 5 per cent. —on material only ; this is equal to, say, 2½ per cent. on the value of the work.

Herewith we append a comparative statement of rates of Indian and English made papers, from which you will see that Indian mill papers show an average of 150 per cent. less in cost than the English papers that were supplied by us for the last 17 years according to the samples the contract was tendered on, which we consider it our duty to ourselves and the Municipality to point out.—We, are, &c.,

KANE, BENNETT & Co.

29th May 1894.

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* *See* Appendix C.

† *See* Appendix B.

Indian Mill Papers.	Cost of English Papers that were used for the Bombay Municipality for the last 17 years.		Cost in Rs. at 1s. 1d.	Cost in Rs. at 1s. 2d.	Difference in percentage between Indian and English papers. At 1s. 1d.	Difference in percentage between Indian and English papers. At 1s. 2d.
White Printing Papers.						
No. 1 ... ...at As. 2-8 per lb.	3d. per lb.		0 3 8 per lb.	0 3 5 per lb.	37½ per cent.	25 per cent.
„ 2 ... ...at As. 2-5 „	2¾d. per lb., ...		0 3 1 „	0 2 10 „	28 „	17 „
Writing Papers, Machinemade.						
Creamlaid...at As. 2-9 per lb.	No. 1. 7d. per lb. ...		0 8 7 „	0 8 0 „	200 „	175 „
	No. 2. 4½d. per lb. ...		0 5 6 „	0 5 1 „	100 „	85 „
	No. 3. 3¾d. per lb. ...		0 4 3 „	0 4 0 „	55 „	45 „
Cream Wove. at As. 2-10 „	No. 1. 8¾. per lb. ...		0 9 10 „	0 9 1 „	247 „	220 „
Bluelaid... ...at As. 2-10 „	No. 2. 6½. per lb. ...		0 7 4 „	0 6 10 „	159 „	141 „
Blue Wove ...at As. 2 11 „	No. 3. 4¾. per lb. ...		0 4 11 „	0 4 7 „	75 „	62 „
Bankpost ...at As. 5 „	H. & J. Bankpost 9d. per lb. ...		0 11 0 „	0 10 3 „	120 „	100 „
	Dickinson's do. 6¼d. per lb, ...		0 8 0 „	0 7 5 „	60 „	48 „
Imitation Handmade,						
Creamlaid ... As. 5-0 per lb.	Saunder's . Handmade 1s. 2d. per lb.		1 1 3 „	1 0 0 „	245 „	220 „
Bluelaid ... As. 5-3 „	Saunder's Machinemade 10d. per lb. ...		0 12 3 „	0 11 5 „	133 „	116 „

Resolved : "That the following be *recorded* :—Letter, dated 29th instant, from Messrs. Kane, Bennett and Co., on the subject of the Municipal printing contract."

No. 2310.

Resolved : "That the following be *recorded* :—Letter, No. 4829, dated 29th instant, to the Secretary, from the Commissioner, reporting that he has sold the right of removing mangoes from 7 and cocoanuts from 30 trees standing on Municipal ground at Purbhadevi Road to one Tookaram Bhawanji Jyer, for one year from 1st June 1894, for Rs. 30."*

No. 2311.

* The right was sold for the first time this year.

BOMBAY, *6th June* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

BHALCHANDRA K. BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL U. YAJNIK; KAIKHOSRO N. KABRAJEE, ESQ.; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPTAIN W. P. WALSHE;

H. A. ACWORTH, ESQ., I.C.S., Commissioner; The WATER ENGINEER; and the SECRETARY;

On the motion of Hurkisondas Nurrotamdas, Esq., seconded by A. G. Viegas, Esq., Cowasji Hormusji, Esq., was voted to the chair.

The minutes of the Meeting held on the 30th ultimo, were signed.

No. 2476. *Resolved*: "That, as applied for by the Commissioner, in his Memoranda No. 4998, dated 31st ultimo, and Nos. 5534 and 5535, dated this day, sanction be given, under section 351 (2) of the Municipal Act, to the removal of the following structures built without permission :—

Names of owner.	Where.
Mr. Nagu Naya Kharwa.....	Shed at Queen's Road, near Chowpati Level Crossing.
Mr. Bayaji Dhondoo	Building at No. 78 Tank Bundar Road.
Mr. Ravji Mahadu	Do. do."

No. 2477. *Resolved*: "That, as applied for by the Commissioner, in his Memorandum No. 5566, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 2478. *Resolved*: "That with reference to letter from the Commissioner to the Secretary, No. 5057, dated 31st May 1894, the Corporation be recommended to sanction the expenditure of Rs. 63,175 for the purchase of a plot of ground on the Apollo Reclamation, near Arthur Bandar, the property of the Port Trust, admeasuring 2,527 square yards or thereabout (at the rate of Rs. 25 per yard), and shown in red hatching on the tracing marked A, dated this day,

and filed in supplement to Minute Books ; the land being required for the air-compressing machinery station, to be erected in connection with the carrying out of the Shone system of sewerage in the Colaba District. The cost to be debited to the allotment of Rs. 7,09,608 for those sewerage works."

Read letter to the Secretary, No. 5167, dated 1st instant, from the Commissioner, as under :—

SIR,—I have the honor to state that the Executive Engineer recommends the laying of 9″ mains in Connaught Road and Gilder Street, 6″ mains in Souter and Club Streets, and a 4″ main in Sussex Road with hydrants, and estimates the cost of the work at Rs. 49,033-8-0. This cost is debitable to the provision of Rs. 50,000 in the Loan works budget for the current year, for laying new mains in various places, principally in Agripada Roads, but as the loan for this and other works sanctioned in the budget will not be raised until 1895-96 the cost cannot be paid therefrom.

Connaught and Sussex Roads have already been constructed, and the surplus land will be sold shortly. The other three roads will be completed in the course of the year. There is no reason why the work should not be proceeded with and the cost met by advances from available loan and other balances pending the raising of the loan.

Under the circumstances I request the Standing Committee to recommend the Corporation (1) to sanction the payment of the necessary expenditure by advances from the balances above referred to be adjusted hereafter against the loan when raised, and (2) to authorize me to apply to Government for the raising of the necessary loan when application is submitted to Government for raising a loan of Rs. 7,19,000 for the Wari Bunder Overbridge as sanctioned by the Corporation in their Resolution No. 504, dated 12th April last.

Sanction is also requested to lay mains out of savings that may accrue in such other streets as may be recommended by the Water Engineer and the Executive Engineer.—I have, &c., H. A. ACWORTH, Commissioner.

Resolved : " That, with reference to letter from the Commissioner to the Secretary, No. 5167, dated 1st instant, the Commissioner be asked to obtain a report from the Executive Engineer as to whether it is necessary to lay a water main in Connaught Road of so large a size as 9″."

No. 2479.

Read letter to the Secretary, No. 5368, dated 4th instant, from the Commissioner, as under :—

SIR,—The Health Officer has often drawn my attention to the bad condition of buildings and ground on Colaba Causeway, owing to the want of sewerage, while complaints from the residents have been frequently received. I am anxious to apply a temporary remedy in the worst portion of that locality pending the completion of the sewerage of Colaba, and I forward therefore for favour of sanction, from the Surplus Cash Balance, an estimate amounting to Rs. 2,391, together with plans for draining into the Apollo Basin the buildings shown on the plan. The position of the drain has been fixed in consultation with the Health Officer, who describes the work as "urgently necessary." The work consists of an open drain except where it passes under roads where pipes will be laid. The Port Trustees have consented to allow the outfall into Apollo Basin, and the lessee of the land at the back of the buildings, consents to the drain being constructed therein, reserving to himself claim to compensation if any of his tenants are driven away by the drain and asking the Municipality to reduce the assessment on the land proportionately. The latter is a matter of course if the valuation is reduced, and as regards the former the tenants are more likely to leave if the drain is not made than if it is made.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : "That, as applied for by the Commissioner, in his letter to the Secretary, No. 5368, dated 4th instant, the Corporation be recommended to sanction the expenditure of Rs. 2,391, from Surplus Cash Balance,* to meet the estimated cost of draining into the Apollo Basin, the buildings shown on the plan marked "B," dated this day, and filed in supplement to Minute Books."

No. 2480.

It was agreed that as this matter is considered urgent the Acting Chairman be asked to give notice that he will, at the meeting of the Corporation to be held on the 14th instant, propose that sanction be given to this grant.

The consideration of the report of the Sub-Committee on the subject of the construction of filter-beds at Malabar Hill Reservoir was further postponed.

* The Acting Chief Accountant reports that on the 7th instant, the unappropriated estimated Surplus Cash amounted to Rs. 2,39,000.

Resolved: "That, as applied for by the Commissioner, in his memorandum No. 5224, dated 2nd instant, sanction be given, under Section 381 of the Municipal Act, to the serving of notice on Mr. H. M. Cama, requiring him to fill up the hole and low-lying ground belonging to him, on the north of the Jubilee Technical Institute, Parel Road."

No. 2481.

Considered again Memorandum to the Secretary, No. 2640, dated 4th May 1894, from the Commissioner, forwarding return of receipts and disbursements for the quarter ending 31st March 1894, as compared with the corresponding quarter of the previous year, together with a list of additional grants, sanctioned by the Corporation, during the quarter. *

Resolved: "That Memorandum No. 2640, dated 4th ultimo, from the Commissioner, and the returns forwarded therewith, be *recorded*."

No. 2482.

Considered the following :—

P. W. OFFICES, *April 13th*, 1894.

THE COMMISSIONER.

SIR,—It strikes me that the method of sending out cheques to be signed by members of Standing Committee is capable of improvement, and with this view I have the honour to make the following suggestions.

(2.) At present a bundle of bills, supposed to be in order, is forwarded with the cheques only written out, many of the bills are not signed by the heads of the departments concerned, and the onus of certifying to the corrections of the claims is thrown upon the members who sign the cheques. I do not wish to throw any doubt upon the establishment which draws out the bills and cheques, but I consider that when signing cheques an assurance should be given (*a*) by the head of the department that the bills are for claims passed by him, and (*b*) by the Chief Accountant that the bills have been duly passed by him and are in order. In order to obtain this, it might be arranged that a register of cheques to be drawn should be kept, with columns for the signatures of the head of the department who forwards the bill and another for the Chief Accountant's in token of the amounts having been checked in his office. With a register such as I suggest, each member of the Standing Committee would at once see that the cheques drawn out corresponded with the claims certified as due in the register, and it would, of course, be open to him to examine any or all the bills he wished.

—Yours obediently,

S. REBSCH, Member of the Standing Committee.

* *See* Proceedings of the Standing Committee, dated 9th May 1894.

No. 1189 of 16th April 1894.

Forwarded with compliments to the Municipal Secretary.

The Commissioner believes the vouchers are always signed by the head of the department.

H. A. ACWORTH, Commissioner.

No. 946 of 18th April 1894-95.

The COMMISSIONER.

Sir,—With reference to your Memo. No. 1189, dated 16th instant, I have the honour to state that I think Mr. Rebsch has overlooked the signatures of heads of departments on the vouchers, which are the authority for the passing and signing of cheques on the Municipal Funds, as those signatures do appear on the vouchers which, after being so certified to, are forwarded to the Chief Accountant who checks the claims made in the vouchers one by one, and ascertains that the charges are duly covered by budget or extra grants. It is his duty to audit all such charges and when necessary to retrench any charges which appear to be in excess of sanctioned amounts, or to be irregular,† or to refer to the Commissioner for orders. On being passed by the Chief Accountant's Office, the vouchers are signed or initialled by the Chief Accountant or his deputy. The cheques which are also initialled by the Chief Accountant or his deputy with their vouchers are then submitted to the Commissioner, and after he has signed the cheques, they, and the vouchers, are passed on to the Secretary, who before initialling the counterfoil of a cheque or signing the cheque itself satisfies himself that each voucher is in order as above. It will be observed, therefore, that the checks and counter-checks suggested by Mr. Rebsch are regularly followed out, and that they answer all the purposes of the register which he proposes to have kept. As the audit of cheque vouchers necessarily occupies considerable time and close attention on the part of the Standing Committee or their responsible officer, the detail of the audit is, as a rule, left to the Secretary, and I may add that on occasions when I have felt doubts as to the authority on which it has been proposed to sign certain cheques. I have, before asking a member to sign them, reported the matter to the Committee for orders. And thus, during the twenty-one years that I have held the appointment of Secretary, I am not aware of a single instance having occurred in which a member of the Town Council or of the Standing Committee has been asked to sign a cheque, regarding the vouchers or authority for the charges contained in the vouchers, the slightest doubt has arisen.—I have, &c.,

H. W. BARROW, Municipal Secretary.

† *See* the Municipal Commissioner's circular No. 5961 of 18th November 1875.

No. 1822 of 24*th April* 1894.

Forwarded to Mr. Rebsch with compliments.

H. A. ACWORTH, Commissioner.

BOMBAY, *April* 25*th*, 1894.

Returned to the Commissioner with compliments. I did not for a moment think that due precautions were not taken. Mr. Barrow's report shows that all that is required is enforced; but I am still of opinion that a system which requires each individual voucher to be scrutinized by the members who sign cheques is faulty.

I personally looked to find the signatures of the Head of the Department, and that of the auditor in several bills and failed, though the fault of failure was probably my own in not being able to readily recognize them among a mass of signatures and initials. The procedure I suggested, *i.e.*, keeping a register, would be useful not only to members of the Standing Committee, but also to the executive officers of the Municipality who would from it see at a glance whether the needful cheques had been carried out by the Head of the Department preferring the bills, and the Chief Accountant's Department. I may mention that the up-keep of such a register would entail very little trouble to the heads of departments who must even now in some form or other, give lists of bills for which they make a requisition for cheques. In my own official work I find it necessary to keep a register, although I know the work of which each bill pertains and I find I can when at my leisure scrutinize the bills, so that when signing cheques I have only to see that their amounts correspond with those entered in the register. I trust, therefore, that my suggestion to keep a register will commend itself to you.

S. REBSCH.

No. 2217 of 28*th April*, 1894.

THE MUNICIPAL SECRETARY.

The matter is really one for the Standing Committee to decide. I have no objection to the proposal.

H. A. ACWORTH, Commissioner.

(These papers were circulated to the Committee.)

MINUTE BY THE HON'BLE MR. FAZULBHOY VISRAM.

I have always considered that the cheques as presented to me for signature as a member of the Standing Committee are in due order. They invariably bear the Commissioner's signature and

Mr. Barrow's initial "B." (which might, however, as well be the full "H. W. B.") on the counterfoil, and sometimes I have noticed the Secretary's full signature before I was asked to sign them. In addition to this, as pointed out by the Secretary, all the checks and counter-checks suggested by Mr. Rebsch *are* regularly followed, though in another form, and therefore, I for one, do not see the necessity for incurring even the little extra trouble and expense the proposed register must entail.

Proposed by S. Rebsch, Esq., seconded by A. G. Viegas, Esq.—

"That the proposals of Mr. Rebsch forwarded with the Commissioner's memorandum, No. 2217, dated 28th April 1894, for the keeping of a register of cheques to be drawn be adopted."

On a division the motion was *lost*, the votes being 4 *for* and 6 *against*.

Considered again the following :—

No. 428 OF 1894.

27th April 1894.

TO THE MUNICIPAL COMMISSIONER.

SIR,—With referrence to the then Town Council's Resolution, No. 1208, dated 17th March 1886, and the latter portion of their Resolution, No. 1444, of 22nd December 1886, I have the honor to forward for the information of the Standing Committee the accompanying Statement showing the investments of the different Loan and Reserve fund balances up to 31st March 1894.—I have, &c.,

SORABJI NAVAROJI COOPER, Chief Accountant.

Statement showing the Investments of Balances

PARTICULARS.				Amount.		
				Rs.	a.	p
1. 27 Lakhs Drainage and Water Works Loan—						
Balance on 1st April 1893	Rs.	48,000	0 0			
Less—Par value of Debentures transferred to the Surplus Cash Deposit Account in 1893-94 to replace advances made to meet expenditure on the works sanctioned out of savings on the above Loan	,,	1,500	0 0			
				46,500	0	0
2. 44 Lakhs Sanitary Works Loan—						
Balance on 1st April 1893	Rs.	6,06,808	8 3			
Less—Amount drawn in 1893-94	,,	1,42,893	9 10			
				4,63,914	14	5
3. 7 Lakhs Sanitary Works Loan—						
Balance on 1st April 1893	Rs.	1,20,000	0 0			
Less—Par value of Debentures transferred to the Surplus Cash Deposit Account in 1893-94 to replace advances made for the Fort Drainage Works	,,	15,000	0 0			
				1,05,000	0	0
4. 12 Lakhs Drainage and Water Works Loan—						
Balance on 1st April 1893	Rs.	2,34,118	12 0			
Less—Amount drawn in 1893-94		*Nil.*				
				2,34,118	0	0
5. Miscellaneous Works Loan of 10,08,500—						
Balance on 1st April 1893	Rs.	99,625	0 0			
Add—Advances made for sundry works in previous years pending raising of Loans, &c., replaced in 1893-94	,,	2,50,000	0 0			
				3,49,625	0	0
6. Agripada House Sullage Water Connections Loan of Rs. 2,48,000—						
Balance on 1st April 1893	Rs.	70,000	0 0			
Less—Par value of Debentures transferred to the Surplus Cash Deposit Account in 1893-94 to replace advances made for the above work.	,,	44,000	0 0			
				26,000	0	0
7. Municipal Building Loan—						
Balance on 1st April 1893	Rs.	3,45,000	0 0			
Less—Par value of Debentures transferred to the Surplus Cash Deposit Account in 1893-94 to replace advances made to meet expenditure on the construction of the Building	,,	2,11,500	0 0			
				1,33,500	0	0
8. 4½ Lakhs† Loan for Fire Brigade Quarters and Stations—						
Balance on 1st April 1893	Rs.	2,23,000	0 0			
Add—2nd Instalment raised in 1893-94	,,	2,00,000	0 0			
		4,23,000	0 0			
Less—Par value of Debentures transferred to the Surplus Cash Deposit Account in 1893-94 to replace advances made for the new Quarters and Stations .. .. Rs 1,49,000 0 0						
Amount drawn in 1893-94 ... ... ,, 2,012 8 0						
		1,51,012	8 0			
				2,71,987	8	0

These bonds were originally invested in favour of the Surplus Cash Deposit

† This Loan is

of Loan and Reserve Funds on 31st March 1894.

How Invested.					Dates of Investments.
In 5 % Municipal Debentures for Rs. 46,500 at par					24th Dec. 1891
In 4 % Government Paper for Rs. 4,74,000	=Rs.	4,63,914	14	5	5th Nov. 1885
In 5 % Municipal Debentures for Rs. 1,05,000 at par					24th Dec. 1891
In 4 % Government Paper for Rs. 2,35,000	=Rs.	2,34,118	12	0	28th March 1890
In 4 % Government Paper for Rs. 1,00,000	=Rs.	99,625	0	0	28th March 1890
In 5 % Municipal Debentures at par	Rs.	2,50,000	0	0*	31st March 1894
	Rs.	3,49,625	0	0	
In 5 % Municipal Debentures for Rs. 26,000 at par					24th Dec. 1891
In 5 % Municipal Debentures for Rs. 1,33,500 at par.					24th Dec. 1891
In 4 % Municipal Debentures at par	Rs.	74,000	0	0	23rd Dec. 1892
In 4 % Government Paper for Rs. 1,88,000	Rs.	1,97,987	8	0	9th & 11th Dec. 1893
	Rs.	2,71,987	8	0	

Account on 24th Dec. 1891, and were transferred to this head on 31st March 1894.
raised at 4 %.

PARTICULARS.				Amount.
				Rs. a. p.
9. 23¼ Lakhs* Loan for Drainage and other Works—				
Amount of 1st Instalment raised in 1893-94 ...		Rs.	13,00,000 0 0	
Less—Amount drawn during 1893-94		,,	6,87,830 2 6	
				6,12,169 13 0
10. Sinking Fund of the 6 % Loans of 1867 and 1868—				
Balance on 1st April 1893		Rs.	1,000 0 0	
Less—Amount drawn in 1893-94			*Nil*	
				1,000 0 0
11. 5 % & 4 % Municipal Loans Sinking Fund—				
Balance on 1st April 1893		Rs.	6,13,554 15 0	
Add—Instalments due in 1893-4. Rs. 1,76,150 0 0				
Net Interest realized during 1893-94 ... ,, 31,909 3 0				
		,,	2,08,059 3 0	
				8,21,614 2 0
12. Municipal Buildings Fire Insurance Fund—				
Balance on 1st April 1893		Rs.	12,774 0 5	
Add—Amount set apart in 1893-94 ... ... Rs. 3,000 0 0				
Net Interest realized during 1893-94 ... ,, 633 11 0				
		,,	3,633 11 0	
				16,407 11 5
13. Worn-out Mains Renewal Fund—				
Balance on 1st April 1893		Rs.	1,00,000 0 0	
Add—Amount set apart in 1893-94 ... ... Rs. 1,00,000 0 0				
Net interest realized during 1893-94 ... ,, 2,539 4 4				
		,,	1,02,539 4 4	
				2,02,539 4 4
14. Net Premia, &c., on different Municipal Loans Fund—				
Net Premia received on the Loans raised from 1888-89 to 1892-93		Rs.	4,10,268 1 2	
Less—Amount appropriated to meet excesses on the Tansa Works and Colaba and Erskine Road Markets		,,	2,93,848 11 11	
		Balance Rs.	1,16,419 5 3	
Add—Net premia received on the Loans raised in 1893-94		Rs.	48,431 3 0	
				1,64,850 8 3

* This Loan was

How Invested.					Dates of Investments.
Invested in 4 % Government Paper for Rs. 5,88,000...	=Rs.	6,12,169	13	6	2nd and 3rd Feb. 1894
Deposited in Cash with the Bank of Bombay.					
In 5 % Municipal Debentures (Rs. 8,13,500) and 4 % Municipal Debentures (Rs. 8,000) at par ...	=Rs.	8,21,500	0	0	Between 10th January 1889 and 12th January 1894.
Deposited in cash at the Bank of Bombay	Rs.	114	2	0	
	Rs.	8,21,614	2	0	
In 5 % Municipal Debentures for Rs. 15,500 and 4 % Debenture for Rs. 500, in all Rs. 16,000 at par ...	=Rs.	16,000	0	0	Between 15th March 1890 and 31st March 1894.
Deposited in cash at the Bank of Bombay	Rs.	407	11	5	
	Rs.	16,407	11	5	
In 5 % Municipal Debentures for Rs. 1,00,000 and 4 % Debentures for Rs. 2,500 at par...	=Rs.	1,02,500	0	0	Between 28th March 1893 and 31st March 1894.
In 5 % Municipal Debentures for Rs. 97,500 at par plus Rs. 2,431-4-0 on account of accrued interest adjusted at the time of investment which will be drawn when due and credited to this head	=Rs.	99,931	4	0	
	Rs.	2,02,431	4	0	
Deposited in cash at the Bank of Bombay	Rs.	108	0	4	
	Rs.	2,02,539		4	
In 5 % Municipal Debentures at par	=Rs.	1,44,000	0	0	19th Jan. 1894 & 31st March 1894.
In 5 % Municipal Debentures at par Rs. 20,000 plus Rs. 500 on account of accrued interest adjusted at the time of investment which will be drawn when due and credited to this head...	=Rs.	20,500	0	0	
	Rs.	1,64,500	0	0	
Deposited in cash at the Bank of Bombay	Rs.	350	8	3	
	Rs.	1,64,850			
raised at 4 %					

PARTICULARS.				Amount.
				Rs. a. p.
15. Surplus Cash—				
Balance on 1st April 1893			Rs. 28,00,700 5 0	
Add—Par value of 5% and 4% Debentures transferred from the following accounts to replace advances—				
27 Lakhs Drainage and Water Works Loan Deposit—5% Debentures ... ...Rs.	1,500 0 0			
7 Lakhs Sanitary Works Loan do. do. ... ...Rs.	15,000 0 0			
2,48,000 Agripada House Sullage Water Connections Loan Deposit—Do. do. ... ...Rs.	44,000 0 0			
8 Lakhs Municipal Building Loan Deposit— Do. Do. ... ...Rs.	2,11,500 0 0			
	Rs. 2,72,000 0 0			
4½ Lakhs Fire Brigade Quarters and Station Loan Deposit—4% Debentures ... ...Rs.	1,49,000 0 0			
23¼ Lakhs Loan for Drainage and other works—4% Government Paper for ... Rs. 2,70,000 ,,	2,80,125 0 0			
	Rs. 7,01,125 0 0			
Cost of 4% Government Paper for Rs. 93,000 purchased on 11th December 1893 out of Surplus Cash Balance	98,467 3 0		7,99,592 3 0	
			36,00,292 8 0	
Less—Amount drawn during 1893-94 from the Government Paper Deposit ... Rs.	4,31,700 5 0			
Par value of 5% and 4% Debentures transferred to the Sinking Fund Account ... Rs.	2,08,000			
Par value of do. do. Municipal Buildings Fire Insurance Fund Deposit Account ... Rs.	3,500			
Do. do. Worn-out Mains Renewal Fund ,,	1,02,500			
Do. 5% do. Premia, &c. on different Municipal Loans Fund ... ,,	1,64,000			
	4,78,000 0 0			
Par value of 5% Debentures transferred to the Mis. Works Loan Deposit Account to replace advances made from that Loan ...	2,50,000 0 0			
			11,59,700 5 0	
			Rs... 24,40,592 3 0	

* This paper was originally purchased on 2nd February 1894 for the investment of a loan and was transferred to the Surplus Cash Deposit Account on 31st March 1894.

How Invested.		Dates of Investments.
In 5% Municipal Debentures for Rs. 18,97,000 at par	Rs. 18,97,000 0 0	Between 24th December 1891 and 31st March 1894.
In 4% Municipal Debentures for Rs. 1,65,000 at par	Rs. 1,65,000 0 0	Between 23rd December 1892 and 31st March 1894.
In 4% Government Paper for Rs. 93,500=98,467 3 0		11th December 1893.
In 4% Government Paper for * Rs. 2,70,000=2,80,125 0 0	Rs. 3,78,592 3 0	31st March 1894.
	Rs... 24,40,592 3 0	

portion of the unexpended balance of the 1st Instalment of Rs. 13 lakhs of the 23½ lakhs

SUM

INVESTED

PARTICULARS.	In 5 % Municipal Debentures at par.	In 4 % Municipal Debentures at par.
	Rs. a. p.	Rs. a. p.
1 27 Lakhs Drainage and Water Works Loan...	46,500 0 0	.....
2 44 Do. Sanitary Works Loan	.....	.....
3 7 Do. do. do.	1 05,000 0 0	.....
4 12 Do. Drainage and Water Works Loan	... ..	.....
5 Miscellaneous Works Loan of Rs. 10,08,500	2,50,000 0 0	.....
6 Agripada House Sullage Water Connections Loan of Rs. 2,48,000	26,000 0 0	.....
7 Municipal Building Loan of 8 Lakhs	1,33,500 0 0	.....
8 4½ Lakhs Loan for Fire Brigade Quarters and Stations...	..	74,000 0 0
9 23¼ Lakhs Loan for Drainage and other Works	.....	.....
Total Invested Loan Balances...	5,61,000 0 0	74,000 0 0
10 Sinking Fund of the 6 % Loans of 1867-68	.....	.....
11 5 % and 4 % Municipal Loans Sinking Fund	8,13,500 0 0	8,000 0 0
Total Invested Sinking Fund...	8,13,500 0 0	8,000 0 0
12 Municipal Buildings Fire Insurance Fund	15,500 0 0	500 0 0
13 Worn-out Mains Renewal Fund	1,97,500 0 0 *2,431 4 0	2,500 0 0
14 Net Premia, &c., on the different Municipal Loans Fund	1,64,000 0 0 †500 0 0	.....
Total other Invested Special Funds ..	3,79,931 4 0	3,000 0 0
Total invested Sinking and other Special Funds...	11,93,431 4 0	11,000 0 0
15 Surplus Cash	18,97,000 0 0	1,65,000 0 0
Grand Total...	36,51,431 4 0	2,50,000 0 0

* Interest on Rs. 97,000 from 1-10-93 to 31-3-94
† Interest on Rs 20,000 from

MARY.

IN PAPER.

In 4 % Government Paper.		TOTAL.	Deposited in Cash at the Bank of Bombay.	GRAND TOTAL.
Nominal Value.	Actual Cost.			
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	.....	46,500 0 0	.....	46,500 0 0
4,74,000 0 0	4,63,914 14 5	4,63,914 14 5	.....	4,63,914 14 5
.....	.....	1,05,000 0 0	.....	1,05,000 0 0
2,35,000 0 0	2,34,118 12 0	2,34,118 12 0	.....	2,34,118 12 0
1,00,000 0 0	99,625 0 0	3,49,625 0 0	.....	3,49,625 0 0
.....	.....	26,000 0 0	.....	26,000 0 0
.....	.....	1,33,500 0 0	.....	1,33,500 0 0
1,88,000 0 0	1,97,987 8 0	2,71,987 8 0	.....	2,71,987 8 0
5,88,000 0 0	6,12,169 13 6	6,12,169 13 6	.....	6,12,169 13 6
15,85,000 0 0	16,07,815 15 11	22,42,815 15 11	.....	22,42,815 15 11
.....	.....	.....	1,000 0 0	1,000 0 0
.....	.....	8,21,500 0 0	114 2 0	8,21,614 2 0
.....	.....	8,21,500 0 0	1,114 2 0	8,22,614 2 0
.....	.....	16,000 0 0	407 11 5	16,407 11 5
.....	.....	2,02,431 4 0	108 0 4	2,02,539 4 4
.....	.....	1,64,500 0 0	350 8 3	1,64,850 8 3
.....	.....	3,82,931 4 0	866 4 0	3,83,797 8 0
.....	.....	12,04,431 4 0	1,980 6 0	12,06,411 10 0
3,63,500 0 0	3,78,592 3 0	24,40,592 3 0	.....	24,40,592 3 0
19,48,500 0 0	19,86,408 2 11	58,87,839 6 11	1,980 6 0	58,89,819 12 11

and on Rs. 500 from 1-1-94 to 31-3-94.
1-10-93 to 31-3-94.

No. 2270 OF 1894-95.

30*th April* 1894.

Forwarded to the Standing Committee for information.

H. A. ACWORTH, Commissioner.

No. 1480 OF 1894-95.

OFFICE of the STANDING COMMITTEE.

BOMBAY, 9*th May* 1894.

TO THE MUNICIPAL COMMISSIONER.

The undersigned has the honour to state that, at the meeting of the Standing Committee held this day, it was—

Resolved: "That memorandum No. 2270, dated 22nd ultimo, from the Commissioner, forwarding statements showing the investments of loan and reserve fund balances up to 31st March last, be referred back to the Commissioner, with the request that the dates of the several investments be shown."

H. W. BARROW, Municipal Secretary.

No. 3637 OF 1894.

15*th May* 1894.

Forwarded to the Chief Accountant for favour of compliance.

H. A. ACWORTH, Commissioner.

MEMORANDUM No. 1013 OF 1894-95.

1*st June* 1894.

Returned to Municipal Commissioner with the dates of the several investments duly entered in the accompanying Statement.

W. PEARSON, Acting Chief Accountant.

No. 5225 OF 1894.

2*nd June* 1894.

Forwarded to the Standing Committee with the dates of investment duly filled in.

H. A. ACWORTH, Commissioner.

Resolved: "That Memoranda Nos. 2270 and 5225, dated 30th April last and 2nd instant, respectively, from the Commissioner, and the returns forwarded therewith, be *recorded*."

No. 2484.

On the suggestion of the Hon'ble Mr. Javerilal U. Yajnik, it was agreed that the Commissioner be asked to have a column added to future returns showing the dates on which the loans will be paid off."

No. 2485. *Resolved:* "That the following be *recorded*:—Memorandum No. 5145, dated 1st instant, from the Commissioner, reporting, with reference to the Committee's Resolution No. 4484, dated 3rd October 1888, the following transfers to the Municipal General Fund pass-book, on the 22nd April 1894 :—

	Rs.	a.	p.
(*a*) From the 44 lakhs Sanitary Works Loan Deposit Account, No. 1	6,969	4	0
(*b*) From the 12 lakhs Drainage and Water Works Loan Deposit Account	4,694	2	0
(*c*) From the 4½ lakhs Fire Brigade Quarters and Stations Loan Deposit Account	1,997	8	0
(*d*) From the 23¼ lakhs Loan for Drainage and other Works Deposit Account	4,254	11	0
(*e*) From the Surplus Cash Deposit Account	5,762	12	0
Rs.	23,678	5	0*

* The Acting Chief Accountant reports to the Commissioner under date of 30th ultimo, that the balances remaining to the credit of the above deposit accounts, after effecting the transfers now reported, stand as under":—

(*a*)	In 4 per cent. Government Paper for	Rs.	4,74,000	0	0	= Rs. 4,63,914	14	5
(*b*)	Do. do.	Rs.	2,35,000	0	0	= Rs. 2,34,118	12	0
(*c*)	Do. do. Rs. 1,88,000 =	Rs.	1,97,987	8	0			
	Do. Municipal Bonds Rs. 74,000 =	Rs.	74,000	0	0			
						= Rs. 2,71,987	8	0
(*d*)	Do. Government Paper for	Rs.	5,88,000	0	0	Rs. 6,12,169	13	6
(*e*)	Do. do. for Rs. 3,63,500 =	Rs.	3,78,592	3	0			
	Do. Municipal Bonds for Rs. 1,59,500 =	Rs.	1,59,500	0	0			
	In 5 per cent. do. for Rs. 18,89,500 =	Rs.	18,89,500	0	0			
						= Rs. 24,27,592	8	0

No. 2486. *Resolved:* "That Memorandum No. 5226, dated 2nd instant, from the Commissioner, and the Return as under, forwarded therewith, be *recorded*:—

Statement of Houses or Portions of Houses which fell during the month of April 1894.

No.	Ward.	Street No.	Locality.	Names of Owners.	Description of Building.	Age of Building or date of erection (if known).	Date of fall.	Cause of fall.	Part fallen.	Casualties. Persons injured.	Casualties. Persons killed.	Estimated loss.	Whether or not action taken by the Municipality.	Whether or not warning given to the parties.	REMARKS.
1	B	166	1st Navroji Hill Road.	Valley Mahomed Rajub.	Chawl three storied (including ground floor.)	Not known.	7-4-91.	Decay of wood-work on account of water.	West wall of the 1st floor privy.	Nil.	Nil.	About Rs. 50	Nil.	Nil.	
2	D	A 50	Tardeo Road.	Messrs. J. N. Petit & Co., Agents. The Oriental Spinning and Weaving Co., Ld.	Ground floor storied Godown.	About 15 years old.	21-4-94.	Water of the Mill Reservoir acting on the foundation of the west wall.	Almost the whole of the building except the north wall and a portion of the east wall.	Nil.	Nil.	About Rs.8,000	Nil.	Nil.	
3	E	4-5	Suklaji Street.	Alibhoy Daudkhan ...	Two storied building.	About 26 years old.	11-4-94.	Beams and posts in the north wall which gave way were rotten.	A portion of the external wall on the north side.	Nil.	Nil.	About Rs. 125	...	...	Notice No. 3, under Section 354, was served on the owner on 13-4-94, and the dangerous portion was removed by the party.

No. 4087 OF 1894-95.

BOMBAY, 30*th May* 1894.

Forwarded to the Municipal Commissioner.

M. C. MURZBAN, Executive Engineer.

No. 5226 OF 2-6-94.

Forwarded to the Standing Committee for information.

H.A. ACWORTH, Commissioner.

Considered again the following :—

BOMBAY, *9th May* 1894.

H. W. BARROW, Esq., Secretary to the Municipal Corporation.

SIR,—I have the honour to submit herewith for the consideration of the Municipal Corporation a petition signed by myself and other 1100 citizens for widening the 1st Marine Street, Dhobi Talao, and I shall feel thankful by your placing the same before that body at your earliest convenience. I have to request that any reply that the Corporation may be pleased to make to this petition may be forwarded to me on behalf of the signatories and myself.—I beg, &c.,

B. R. KOTEWAL.

BOMBAY, *9th May* 1894.

THE PRESIDENT AND MEMBERS OF THE MUNICIPAL CORPORATION, Bombay.

The humble petition of the residents of Dhobi Talao and of localities thereabout, members and subscribers of the Native General Library, Professors, teachers, and students of St. Xavier's College and of the Elphinstone, St. Xavier's, Robert Money's and Middle Schools, passengers arriving at and departing from the Marine Lines Station and other public citizens passing through 1st Marine Street.

HUMBLY SHEWETH,—That your petitioners have daily to pass and repass several times, the 1st Marine Street, which lies behind the Framji Kawasji Institute. The lane being centrally situated near the various educational institutions above-named, and being connected with the main Esplanade Road, thousands of citizens, especially passengers from the Marine Lines Station, find it very convenient to pass through it, because it affords a short cut from the station to the College, Schools, Native General Library, Framji Cowasji Institute, and several other public places, such as the Small Causes Court, Gokuldas Tejpal Hospital and Crawford Markets.

That your petitioners respectfully beg to bring to the notice of the Corporation that a portion of the approach on the east side of the lane is so very narrow that a pedestrian can with difficulty pass through it when any conveyance is coming from the opposite direction without running the risk of injuring his limbs. It is very possible for persons to be crushed near this end of the lane, so that while passing through this portion great precautions have to be taken to avoid injury. Many minor accidents have, as a matter of fact, occurred, but they have not been reported in the public papers. Many accidents have been averted by pedestrians taking refuge in the houses situated on

either side of the lane while vehicles were passing. The actual width of the approach is 10 feet. That your petitioners also beg to bring to the notice of the Corporation the insanitary condition of the place, in consequence of which cases of cholera have frequently occurred there. The fact that the houses situated therein are very thickly inhabited furnishes an additional reason for the observation of the strictest sanitary precautions.

That your petitioners respectfully beg to request that the Corporation will be pleased to widen the said approach by purchasing all the small houses situated thereon. As these houses are not of *pucca* materials, your petitioners very respectfully submit that the Corporation will not be under the necessity of incurring heavy expenses by so doing.

And your petitioners, as in duty bound, will ever pray.

BEJUNJI RATONJI KOTEWAL,

G. S. MANKAR, and others.

Read letter to the Secretary, No. 4961, dated 30th ultimo, from the Commissioner, as under :—

SIR,—With reference to the Resolution of the Standing Committee, No. 1465, dated 9th instant, I have the honour to state that the petitioners request that 1st Marine Street be widened by purchasing some small houses in the lane and by adding the ground occupied by these houses to the street.

This improvement is a part of the much-needed and important improvement of making a direct road from the Framji Kawasji Institute to Queen's Road.

The desirability of opening out this and three other roads was brought to the notice of the Standing Committee and the Corporation both by Sir Charles Ollivant and Mr. F. L. Charles (see para. 43 of the Administration Report for 1885-86, and para 63 of the Administration Report for 1886-87.) The Extension Committee also recommended, in 1887, the continuation of Carnac Road past Framji Kawasji Institute and Marine Street over the B.B. & C. I. Railway by overbridge on to Kennedy Seaface. But Government have, on the representation of the Corporation, been pleased to sanction the abandonment of the proposal to construct an overbridge at Marine Lines and to approve of the construction of an overbridge at Chawpati in lieu thereof, *vide* Government Resolution No. 254, dated 5th February, 1894, Public Works Department, Railway, copy of which was forwarded for the information of the Corporation under this Office No. 26592, dated 8th March last. This does not, however, at all, obviate the need of opening out road communication,

A provision of Rs. 3,25,000 was made in the Budget estimates for the year 1894-95 for the construction of this road, 60 feet wide, but it was struck out by the Standing Committee.

This is a much-needed and very desirable improvement, and I would again urge upon the attention of the Standing Committee and the Corporation the necessity of carrying out this work as early as possible.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 2487. *Resolved* : "That letter to the Secretary, No. 4961, dated 30th May 1894, from the Commissioner, be forwarded to the Corporation with reference to petition, dated 9th idem, from Mr. B. R. Kotewal and other citizens, on the subject of widening of the First Marine Street, Dhobi Talao."

No. 2488. *Resolved* : "That the following be forwarded to the Commissioner, in continuation of the Committee's Resolution No. 13539, dated 14th March last :—Further letter to the Secretary, dated 24th May 1894, from Mr. Noor Mahomed Jairazbhoy Peerbhoy, regarding the alleged nuisance existing adjoining his property at Foras Road."

Read the following :—

TO THE PRESIDENT, BOMBAY MUNICIPAL CORPORATION.

RESPECTED SIR,—We have the honour to bring to your notice that at Chinch Bunder Road, in the house occupied by Punja Jeram, the trade of removing dust from grain is carried on to a very great extent.

The practice evidently has been of purchasing grains at the Bunders mixed with a large quantity of dust, and this is brought to the house referred to and where a large number of labourers are employed for the purpose of separating the dust from the grain.

This operation is carried on on the ground floor of the building and a large number of people sit outside in the open space of the ground floor referred to by us for the same purpose.

The nuisance thus caused is unbearable not only to the neighbours but also to the passers-by. Alongside where this operation is carried on is a dispensary where a large number of sick people

attend daily and are put to a great amount of inconvenience on account of the volumes of dust which fly in from the house where the operation is carried on. Under section 394 of the Municipal Act, it is stated "that no person shall use any premises without a license and for any purpose which is in the opinion of the Commissioner dangerous to life, health, or property or likely to create a nuisance."

We beg to state that the operation, as carried on, is dangerous to health inasmuch as the dust which emanates from the work of separating the grain is so great that it is inhaled by the passers-by. It is also a great nuisance to the surrounding-houses.

A visit to the place without notice to the owner will thoroughly convince any person that the nuisance is great and ought to be stopped at once.

Under these circumstances we request that the above mentioned occupier of the premises be called on to desist from carrying on the work on the premises in question.—We beg, &c.,

BEZONJI NOVROJI, Horsedealer, L. M. & S. (and others).

No. 3715 of 1894-95.

28th April 1894.

To the MUNICIPAL COMMISSIONER.

Memo.—The cleaning of grain in this and many other godowns in the town is no new thing. In the present instance the complainants have put up with the annoyance, if such it be, for a long time. The complainant Dr. Bezonji Novroji has recently opened a dispensary and he is the real complainant. I am not prepared to take any action in the matter. The complainants should be referred to a Magistrate under section 515 of the Act.

T. S. WEIR, Health Officer.

No. 7650 of 1894-95.

29th May 1894.

To The MUNICIPAL COMMISSIONER.

Memo.—I have already reported on this case under No. 3715 of 28th April 1894, and I have little to add, beyond stating that in my opinion the case does not, I think, come under section 394. If it does, then all grain garbling on the Port Trust Estate would have to cease, as no license could possibly be given and the trade of the Port would be seriously interfered with. At

the same time, I cannot see why the cleaning and garbling of seeds and grain cannot be done where these products are grown. This city, on the Bunder, is certainly not the place. I see garbling now going on without the protection against dust being carried out consented to by the Trustees. The Trustees agreed to the following:—

"That the parties taking up land for the purpose should "enter into an agreement to erect screens of gunny cloth and "bamboos or other suitable material to prevent the dust from "flying and that the screens provided should be such as the "officers of the Port Trust may consider sufficient. Also that "the dust from the operations of each day should be removed "before 10 o'clock on the following day, failing which it will "be removed by the Trustees at the owner's expense."

T. S. WEIR, Health Officer.

No. 5050 OF 1894-95.

31*st May* 1894.

Copies forwarded to the Standing Committee with reference to their Resolution No. 1460, dated 9th instant.

The Commissioner agrees with the Health Officer that action cannot be taken under Section 394. The petitioner, that is the person who no doubt got the petition up, was told so. It is a case in which he must take action himself against the persons responsible for the nuisances, if a cause of action exists. The Commissioner is making enquiries as to the efficacy or otherwise of the measures promised to be adopted by the Port Trustees.

H. A. ACWORTH, Commissioner.

No. 2489. *Resolved*: "That, in reply to letter (without date) from Mr. Bezonji Navroji, Horsedealer, and others, the Corporation be informed that the Commissioner and the Health Officer are of opinion that action cannot be taken in this matter under section 394 of the Municipal Act, and that if a cause of action exists, this is a case in which action must be taken by the petitioners themselves under the terms of Section 515 of the Act.

No. 2490. *Resolved*: "That the following be re-circulated to Members of the Committee:—Memorandum No. 2804, dated 5th May 1894, from the Commissioner, forwarding, with reference to the Committee's Resolution No. 1752, dated 31st May 1893, statement shewing (1) the number of cases during the

past three years in which agreements for set-backs have been entered into by the Municipality with the owners of private properties; and (2) the estimates of the probable cost which would have been incurred if all the properties had been immediately acquired."

The following return was read and *recorded* :—

No. 2491. Return of fires at 134 Bhendy Bazar Street, Carpenter Street, Null Bazar, and Falkland Roads, forwarded with Commissioner's Memorandum No. 434, dated the 28th May 1894.*

The following statement† was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes, for the week ending 3rd June 1894.

No. 2492. *Resolved* : "That, as applied for by the Commissioner, in his letter No. 5499, dated 5th instant, sanction be given under the terms of Section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. Latham & Co., for the supply of 481 street name plates, whereby the contract time may be extended from 28th February to 7th April last."

BOMBAY, 13*th June* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

BHALCHANDRA KRISHNA BHATAWADEKAR, Esq., L.M.; COWASJEE HORMUSJEE, Esq., G.G.M.C.; THE HON'BLE Mr. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, Esq.; THE HON'BLE Mr. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, Esq.; K. M. SHROFF, Esq.; S. REBSCH, Esq., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, Esq., L.M. & S.; R. H. VINCENT, Esq., C.I.E.; CAPTAIN W. P. WALSHE;

H. A. ACWORTH, Esq., I. C. S., Commissioner; and the SECRETARY.

Letter was received from G. W. Roughton, Esq., at Ootacamund, apologizing for non-attendance.

On the motion of S. Rebsch, Esq., seconded by Hurkisandas Nurrotumdas, Esq., Cowasjee Hormusji, Esq., was voted to the Chair.

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* *See* Appendix C. † *See* Appendix B.

The minutes of the meeting held on the 6th instant, were signed.

No. 2678. The seal of the Corporation was affixed to deed of agreement between Mr. Sorabji Navroji Musa and the Corporation, securing to the Municipality the right to acquire, at any future time, the set-back of property, Nos. 40-46, Kalbadevi Road, without payment of any compensation in respect of the unauthorised work, indicated on the plan annexed to the deed, and at the rate of Rs. 60 per square yard for any land shown on the plan to be there taken up, inclusive of any loss, damage or expense sustained by him by reason of such acquisition.

No. 2679. The seal was also affixed to deeds of contract (1) with Mr. Louis Penny, Manager, Bombay Gas Company, for the supply of coke, during 1894-95 ; and (2) with Messrs. Garlick and Co.,

No. 2680. for paving a portion of the Frere Road footpath with Indian Patent stone.

No. 2681. *Resolved* : " That, as applied for by the Commissioner, in his Memorandum No. 6147, dated this day, sanction be given to the cutting off of water connections, as per list submitted therewith."

No. 2682. *Resolved* : " That, with reference to letter, from the Commissioner to the Secretary, No. 5862, dated 9th instant, the Corporation be recommended, under the terms of section 90 (3) of the Municipal Act 3 of 1888, to sanction the expenditure of Rs. 8,000, including the amount of the capitalized value of the rent to be paid to the Fazindar, for the purchase of 91·22 square yards, or thereabout, of land and house standing thereon, situate at Dongri Street, the property of Mr. Karim Rahimbhai, and shown in hatched yellow and yellow colours on the plan marked A, dated this day, and filed in Supplement to Minute Books ; the land and premises thereon being required as part of the site for the proposed new road through Nowroji Hill, from Elphinstone Bridge to Dongri Street. The cost to be debited to the balance, Rs. 2,63,800, of the grant, Rs. 3,32,023, sanctioned by

the Corporation, in their Resolution No. 5293, dated 19th November 1888, for the construction of the said proposed new road."

No. 2683. *Resolved*: "That the following be *recorded*:— Letter to the Secretary, No. 5682, dated 7th instant, from the Commissioner, reporting that he has entrusted to Messrs. Garlick and Co., the work of paving with Indian Patent stone, the floor of the old boiler-house at Love Grove, at a cost of Rs. 791. The cost to be debited to the grant of Rs. 1,245, for the work in the current year's budget."

No. 2684. *Resolved*: "That the following be *recorded*:— Letter to the Secretary, No. 5817, dated 9th instant, from the Commissioner, stating, with reference to his report of the purchase, from Mr. Merwanji Pestonji Master, of 100 tons Powell Duffryn coal, at Rs. 19 per ton, which report was *recorded* by the Committee, in their Resolution No. 2219, dated 23rd May 1894, that as Mr. Master has declined to supply the coal, the Commissioner has sanctioned the purchase from Messrs. Dadabhai Hormusji and Co., of the same quality and quantity of coal, at Rs. 19-8-0 per ton."

No. 2685. *Resolved*: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 5843, dated 9th instant, sanction be given to the acceptance by him, of the tender of Messrs. Spencer and Co., the lower of 2 tenders received, for constructing pipe sewers, manholes, automatic flush tanks and metal vent shafts in Kalachowki Road, at a cost of Rs. 9,117·665. The cost to be debited to the provision of Rs. 36,871, included in the Loans of 23¼ lakhs."

No. 2686. *Resolved*: "That, as applied for by the Commissioner, in his Memorandum No. 5816, dated 9th instant, sanction be given to the transfer of Rs. 100, from savings in the Conservancy Branch, Section II., Labour, Scavengering, Health Department Budget, to Section II., Contingencies, &c., Licensing Establishment, Assessment and Collection

Department Budget, to meet the cost of printing new form of license and other forms of the latter Establishment."*

Proposed by S. Rebsch, Esq., seconded by Hurkisandas Nurrotumdas, Esq.—

No. 2687. "That, as applied for by the Commissioner, in his memorandum No. 5836, dated 9th instant, sanction be given, under section 381 of the Municipal Act, to the serving of notice on Gokibai, widow of Jamnadas Devidas, requiring her to fill in the well attached to her property at No. 4, Kalbadevi Road, as the water thereof is foul, and no notice has been taken of the Health Officer's requisition in the matter."

Amendment moved by the Hon'ble Mr. Javerilal U. Yajnik, seconded by K. M. Shroff, Esq.—

"That the consideration of this matter be deferred until next meeting to allow of the attendance of the Health Officer."

On a division, there were 4 votes *for* the amendment, and 6 votes *against* it, and it was *lost*.

The original motion was *carried* by 7 votes, *against* 2 votes.

Resolved: No. 2688. "That, as applied for by the Commissioner, in his letter to the Secretary, No. 5919, dated 9th instant, sanction be given, under the terms of section 92 (*b*) of the Municipal Act, to the leasing to the Commissioner of Police, of the following plots of municipal ground as sites for police chowkies, at the undermentioned rates, on sufferance for one year, from 1st April 1894 to 31st March 1895, the chowkies to be removeable at three months' notice."

* The Commissioner states that the reason of this excess is: In former years the conditions of the licenses were printed on the reverse of the license forms. This prevented the licensees from keeping the licenses fixed on a board kept in a conspicuous part of the premises licensed. The conditions this year have, therefore, been printed on the face of the licenses, and thus the printing and binding charges have increased. A Guzerati and Marathi foot-note also having been inserted in the license forms, the rates charged by the printing contractors were market rates and not scheduled ones. Pay sheet and absentee forms were hitherto supplied by the Chief Accountant's Office. This year the Licensing Office had to get them printed at the cost of Rs. 33-2-0.

List of Police Chowkies standing on municipal ground.

No.	Names of Roads.	Rent to be charged for 1894-95 at 5 per cent. on the value of ground per annum.
		Rupees.
1	Marine Street, near Town Hall and Custom House	149·44
2	Chinch Bundar Road, near Elphinstone over-bridge	11·38
3	Pedder Road	1·77
4	Pedder Road, near Altamont and Gowalia Tank Road	1·77
5	DeLisle Road and Haines Road	1·26
6	Bellasis Road	3·79
7	Wari Bunder Road, and Belvedere Road	1·26
8	Grant Road, near the Two Tanks	2·13
9	Falkland Road and Foras Road	26·36
10	Near the junction of Mount Road, Mazagon and Dockyard Roads	14·29
11	Sankli Street and Haines Road	35·98
12	Lady Jamsetji Road, Portuguese Church Street and Dadar Road	1·19
13	Lady Jamsetji Road	·30
14	Lady Jamsetji Road, near Mahim Bazar Cross Road	·59
15	Custom Road, near the junction of Lady Jamsetji Road	1·48
16	Cleveland and Worli Roads	4·00
17	Near the junction of Worli, Fergusson, Haines and Mahaluxmi Roads	·44
18	DeLisle Road and Carroll Road	4·26
19	Near Arthur Road and DeLisle Road	2·20
20	Carnac Road	25·41
21	Nepean Sea Road	6·80
22	Junction of Gowalia Tank and Gamdevi Road.	3·03
23	Junction of DeLisle Road and Clerk Road	1·43
24	Junction of Bellasis Road and Gilder Street.	1·46
25	Matunga Road, opposite Footka Tank	1·07
26	Near the junction of Lady Jamsetji Road and passage to Manmala Tank	·58
27	Lady Jamsetji Road, near Gopi Tank Road	·52
28	Junction of Mahim Bazar Road and the passage leading to Gopi Tank Road	·79
29	DeLisle Road, opposite Fergusson Road	1·08
30	Hornby Vellard and Worli Roads, near Mama-Hajani	·54
31	Haines Road, north of Race Course	·62
32	Junction of Khera Tank Road and Coombharwada Road	·09
33	Matharpakhadi, Worli	·61

The following was transferred to the list of outstanding business :—Report of the Sub-Committee, on the subject of the construction of filter-beds at the Malabar Hill Reservoir.

No. 2689.

Read letter No. 5504, dated 5th instant, from the Commissioner, to the Secretary, as under :—

SIR,—I have the honour to request sanction of the Standing Committee and the Corporation to write off the amount of Rs. 389-4-3, which was stolen from the Victoria Gardens' office on 25th March 1894.

Of this sum Rs. 168-2-0 were on account of sale of flowers and plants, Rs. 152-6-3, balance of Rs. 300, advanced to the Superintendent of Gardens, and Rs. 68-12-0, amount received from a lady and a gentleman for sending plants and seeds to England.

This sum was put in a cash-box which was locked by the Superintendent, who kept the key. It was then placed in a cupboard containing stationery and other office papers, which was also locked, and the key of it was, in accordance with the practice in vogue, kept in an open drawer. On the 26th idem when the Superintendent told the office peon to get the box from the cupboard, he opened it, and found that the box was not there. The Superintendent thereupon reported the matter to the Commissioner of Police, who had enquiries made by the police and the detectives, but up to the present day no trace of the stolen property has been discovered.

The cash-box was in all probability stolen between 3 and 4 p.m. on Sunday, 25th March. At the former hour a clerk named Lobo, who has been dismissed, was at the office, and a peon named Rama Gunnoo. Lobo sent Rama away on a message, and on the return of the latter he found that the office was empty, Lobo having gone out. The cash-box was not missed till the following morning, but this seems to have been the only opportunity that occurred for conveying it off.

I have directed the Superintendent to keep the box in his personal charge till a safe is procured and fixed at the office.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : "That, as applied for by the Commissioner, in his letter to the Secretary, No. 5504, dated 5th instant, the Corporation be

No. 2690.

recommended to sanction the writing off of Rs. 389-4-3, being the amount which was stolen from the Victoria Gardens' office, on 25th March 1894, namely (1) Rs. 168-2-0, on account of sale of flowers and plants; (2) Rs. 152-6-3, balance of Rs. 300, advanced to the Superintendent of Gardens; and (3) Rs. 68-12-0, amount received for sending plants and seeds to England.

"That, on enquiry the Standing Committee are informed by the Commissioner, that the Superintendent has been reprimanded and directed to keep the cash-box in his own care for the future."

Read letter No. 5764, dated 8th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to state, for the information of the Standing Committee and Corporation, that through inadvertence, the unexpended portions of the grants yearly made by Government and the Corporation, Rs. 10 per head each up to 150 inmates, for the maintenance of the Homeless Leper Asylum, have been treated as part of the Municipal Fund and allowed to pass into Surplus Cash Balance. The Chief Accountant of the Municipality has been good enough at my request to take charge of the accounts of the Asylum, but the mistake has been made of treating them, whether the funds came from the Corporation or from Government as Municipal assets and passing them through the Municipal accounts. This practice has now been put a stop to, and the full amount of the Government and the Corporation contributions, which is equal to Rs. 10 per head of inmates up to 150 in each case, will be paid in future to the credit of the Leper Fund and separate detailed accounts will be kept thereof.

I have now the honour to ask sanction to a grant of Rs. 4,051-11-5 from Surplus Cash Balance as a refund of the unexpended balances of 1890-91, 1891-92, and 1892-93, which have been improperly credited to the Municipal Fund. It will, of course, be understood that this is not the difference between the sanctioned yearly grant of Rs. 36,000, and the amount calculated at Rs. 10 per head on the actual number of inmates, but between the latter and the sum actually spent in the year. The loss of these balances has seriously straitened our means, as for instance in 1893-94, when the whole charge for clothing (Rs. 3,739-5-8) had to be

paid out of the small remains of the capital fund as the maintenance grant, the balances of which were supposed to have lapsed, was unable to meet it.

Estimated surplus in excess of what has already been appropriated in the budget for 1894-95 is	Rs. 3,50,000	0	0
Out of which have been already sanctioned (excluding temporary advances to be adjusted hereafter) Rs. 92,716 13 1			
And the expenditure of „ 17,669 4 0 has been recommended for sanction	Rs. 1,10,386	1	1
Available.	Rs. 2,39,613	14	11

I have, &c.,

H. A. ACWORTH, Commissioner.

Memorandum of the unexpended balances of the Municipal and Government contributions towards the maintenance of the Homeless Leper Asylum, at Matunga, which have lapsed to the Municipality :—

1890-91	...Rs.	10	4	1
1891-92	... „	261	6	2
1892-93	... „	3,780	1	2
Total Rs.		4,051	11	5

W. PEARSON, Acting Chief Accountant.

No. 2691. *Resolved* : " That, as applied for by the Commissioner, in his letter to the Secretary, No. 5764, dated 8th instant, the Corporation be recommended to sanction the grant of Rs. 4,051-11-5, from Surplus Cash Balance, as refund of the unexpended balances of 1890-91, 1891-92, and 1892-93, of the fund for the Homeless Leper Asylum, Matunga, which have been improperly credited to the Municipal Fund, being the difference between the amount calculated at Rs. 10 per head on the actual number of inmates of the Asylum, and the sum actually spent."

In accordance with notice of motion it was—

Proposed by the Hon'ble Mr. Javerilal U. Yajnik—

No. 2692. "That the Municipal Commissioner be requested to inform the Standing Committee—(1) Whether he is aware that, under the present

system of refunding town duties, refunds are allowed to exporters of wheat bran under the name of pollard, or wheat flour, and if so, at what rates are such refunds made ; whether pollard is nothing more than bhoosee or fine wheat bran, and whether the rates of refunds on wheat flour, wheat bran or pollard or fine bhoosee, are same or different ? (2) What was the amount refunded in this way to exporters of wheat flour under one or other of these names during the year, which ended with the 31st March 1894 ? (3) Is there in the Refund Office of the Municipality any system of checking claims for refunds on exports of wheat flour or so called wheat flour, under one or other of these names ? With whom does the responsibility of checking the correctness of these claims rest ?"

The motion was seconded by K. M. Shroff, Esq., and *carried.*

The following return was read and *recorded*:—

No. 2693. Return of fires at Doctor Street (Null-Bazar) and Chinchpokli Road, forwarded with the Commissioner's memorandum No. 5419, dated 4th June 1894.*

The following statement† was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 10th June 1894.

Resolved :- "That the following be forwarded to the Commissioner for favour of remarks :—

No. 2694. Letter to the Chairman, dated 12th instant, from Mr. Hormusjee Muncherjee Cama, protesting against the serving of notice on him, requiring him to fill up the low-lying ground on the north of the Victoria Jubilee Technical Institute, Parel Road, and asking the Committee to reconsider the matter."

Resolved : "That the following be referred to the Commissioner for favour of remarks :—

No. 2695. Letter to the Secretary, dated 31st May 1894, from Messrs. Venkoo Balloo & Co., building contractors, asking that a portion of the fees they have

* *See* Appendix C. † *See* Appendix B.

been charged for the deposit of building materials in the Fort may be remitted; and that the building fees may be altered."

No. 2696. *Resolved:* "That, as applied for by the Commissioner, in his letter to the Secretary, No. 6052, dated 12th instant, sanction be given, under the terms of Section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. Rutonjee Bezonji & Co., for the construction of the Fire Brigade station at Colaba, whereby the execution of certain extra works shall be entrusted to them, and the contract time extended, from 30th April to 30th instant."

No. 2697. *Resolved*: "That, as applied for by the Commissioner, in his letter to the Secretary, No.6051, dated 12th instant, sanction be given, under the terms of Section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. Richardson & Cruddas, for the supply of certain special castings required for the connection between the Tānsa and Vehar water mains at Chinchpokli, whereby the contract time shall be extended from 28th February to 31st July next."

No. 2698. *Resolved:* "That, as applied for by the Commissioner, in his letter to the Secretary, No. 5988, dated 11th instant, sanction be given to the purchase, from Messrs. Killick Nixon & Co., 250 tons Powell Duffryn coal, at Rs. 19 per ton, and 250 tons Davison's West Hartley, at Rs. 17-12-0 per ton, to be delivered at the Love Grove Pumping Station by 15th July next. The cost, Rs. 9,187-8-0, to be met, from the grant for current year, for the purchase of coal for the Pumping Station.

"That, under the terms of Section 72 (3) of the Municipal Act, the Committee dispense with the invitation for tenders which would otherwise be necessary, as the present arrangements for the purchase of coal are advantageous to the Municipality."

No. 2699. *Resolved*: "That, as applied for by the Commissioner, in his Memoranda Nos. 6101 and 6102, dated this day, sanction be given,

under Section 351 (2) of the Municipal Act, to the removal of the following structures, built without permission :—

Names of owners.	Where.
Mr. Hirji Assoo.....	Sheds at Matunga.
Mr. Issac Hadji Abdula	Shed at No. 19, Islampura Street."

Read Letter No. 6138, dated this day, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to request the sanction of the Standing Committee to the rate of Rs. 9-8 for the supply of 300 Field Books being altered to Rs. 98 in the schedule attached to the contract for printing work for the current year. Through a clerical error in the *Bombay Gazette* Office, the second figure of 98 was put in the column for annas, and even after this alteration is allowed the rate will be less than that quoted by the *Times of India*, which is Rs. 168-12.—I have, &c., H. A. ACWORTH.

Resolved : "That, as applied for by the Commissioner, in his letter to the Secretary, No. 6138, dated this day, and for the reason stated therein, sanction be given to the rate of Rs. 9-8-0, for the supply of 300 Field Books being altered to Rs. 98-0-0, in the schedule attached to the contract for printing work for the current year."

No. 2700.

BOMBAY, 20*th June* 1894.

AT the Meeting of the Standing Committee held this day, there were present : —

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M. ; COWASJEE HORMUSJEE, ESQ., G.G.M.C. ; THE HON'BLE MR. FAZULBHOY VISRAM ; HURKISONDAS NURROTUMDAS, ESQ. ; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK ; KAIKHOSRO N. KABRAJEE, ESQ. ; K. M. SHROFF, ESQ. ; S. REBSCH, ESQ., ASSO. M.I.C.E. ; ACCACIO G. VIEGAS, ESQ., L. M. & S. ; R. H. VINCENT, ESQ., C.I.E. ; CAPTAIN W. P. WALSHE ;

H. A. ACWORTH, ESQ., I.C.S., Commissioner ; and the SECRETARY.

The minutes of the Meeting held on the 13th instant, were signed.

The seal of the Corporation was affixed to deeds of contract :— (1) with Messrs. Dadabhai Hormusjee and Co., for the supply of 100 tons Powell's Duffryn Cardiff coal, to be delivered at the Municipal Workshops ; and (2) with Messrs. C. J. Khambata & Co., for the supply of smithy nuts coal during 1894-95.

The seal was also affixed to a lease (in duplicate) for a period of 2 years, from the Trustees of the Pinjrapol, of the ground floor of their Committee's office building, for occupancy by stallholders of the Bhuleshwar Market, during the process of pulling down and rebuilding the Market.

The seal was also affixed to (1) 17 attested duplicate debentures of the Bombay Sanitary Works Loan of 1885, Nos. 819 N. N., 1734 N. N., 2656 N. N., 2657 N. N., 2836 to 2843 N. N., 3129 N. N., 3390 N. N., 3391 N. N., 7380 N. N., and 7467 N. N., of Rs. 500 each ; (2) 32 attested duplicate debentures of the Bombay Municipal Loan of 1878, Nos. 3239 to 3245, 3250, 3252 to 3255, 3546, 3547, 3572 to 3581, 4036, 4037, 4041, 4043, 4048, 4049, 4077 and 4080, of Rs. 500 each ; (3) 10 attested duplicate debentures of the Tansa Water Works Loan, Nos. 457, 2149, 4984 to 4987 and 21246, of Rs. 500 each ; and Nos. 9767-68 to 9771-72, of Rs. 1,000 each ; (4) 2 attested debentures of the Water Works and Drainage Loan of 12 Lakhs, Nos. 2113 and 2114, of Rs. 500 each ; (5) 3 attested duplicate debentures of the Bombay Municipal Sanitary Works Loan of 1888, Nos. 415-16, 421-22 and 425-26 of Rs. 1,000 each, and (6) 2 sub-divided debentures of the Tansa Water Works Loan Nos. 10755 and 10756 of Rs. 500 each.

No. 3139. *Resolved* :- "That, as applied for by the Commissioner, in his Memorandum No. 6375, dated 16th instant, sanction be given, under Section 351 (2) of the Municipal Act, to the removal of the following structure built without permission :—

Name of Owner.	Where.
Mr. Pandu Govind	Shed at Chaopati Road."

No. 3140. *Resolved* : "That, as applied for by the Commissioner, in his Memorandum No. 6679, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

Read letter No. 5989, dated 11th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to state that about 155·97 square yards of land at Mahim were acquired, under the provisions of Section 299 of the Municipal Act, from the Scottish Orphanage Committee, and added to the road on 29th June 1892.

On 7th July 1892 the Honorary Secretary to the Committee wrote to the Executive Engineer and enquired what compensation would be paid for the area taken up by the Municipality. A rate of Rs. 2-0 was settled, of which he was informed on 29th April 1893. Rs. 48-0 were also offered for the 6 trees which stood thereon. The Honorary Secretary was also requested to produce the title-deeds before the Executive Engineer to prove the right of the Committee to receive the money. On the 11th May 1893 he informed the Commissioner that the offer of compensation above referred to would be submitted to his Committee for consideration. On 7th July 1893 he informed the Commissioner that the Orphanage Committee accepted the offer. He also stated that the title-deeds were with the Government Solicitor who was preparing a trust deed required by Government, and that payment of compensation might not on that account be delayed. In reply to this he was informed on 28th idem that, in order to enable his Committee to receive compensation, it was necessary that he should produce the title-deeds before the Executive Engineer for investigation. After an interval of 9 months he informed the Commissioner on 30th April 1894 that he had received them back from the Government Solicitor, and enquired when he should produce them for inspection.

In this case compensation is payable under Section 301 of the Municipal Act, and the amount of compensation should have been claimed within 6 months from the date on which the claim was last acknowledged by the Municipality—viz., 28th July 1893, but as the Committee did not do so, their claim became time-barred under Section 527 of the Act. But as Counsel, whose opinion has been obtained on the question of payment of compensation in cases where the claims have become time-barred, advised that " there is no reason why the Municipality should not satisfy just claims out of Municipal funds, even though the right to recover them may be technically barred," and as the Orphanage is a charitable institution, the objection as to time was waived and orders for payment issued. On receipt of the above instructions, the Honorary Secretary was informed by the Executive Engineer that though the claim had become time-barred, it would be admitted, as it is in respect of a charitable institution. Apparently sanction of the Standing Committee is needed under Section 501, and for that sanction I now apply.—I have, &c.,

H. A. ACWORTH, Commissioner.

Proposed by Bhalchandra K. Bhatawadekar, Esq., seconded by Captain Walshe—

"That the question of the validity of the payment of the claim of Scottish Orphanage, for the value of the 155·77 square yards of land taken from them for street improvement at Mahim, and of the trees thereon be referred for the opinion of the Standing Counsel to the Corporation with reference to the power of the Corporation under any circumstances to pay a claim, apparently time-barred."

No. 3141.

Amendment moved by A. G. Viegas, Esq., seconded by Kaikhosro N. Kabraji, Esq.—

"That in the opinion of the Standing Committee it is not necessary to take further legal opinion to the payment claimed by the Scottish Orphanage Committee, for 155-77 square yards, or thereabout, of land, situate at Mahim Back Road, taken up for the improvement of road thereat, at the rate of Re. 1 per yard.

"That sanction be given to this payment as also to the payment of Rs. 48, being the cost of 6 trees standing on the land so taken up."

On a division the amendment was *lost*, the votes being 2 *for* and 9 *against*.

The original motion was *carried* by 9 votes *against* 2 votes.

Read letter No. 6050, dated 12th instant, from the Commissioner to the Secretary, as under :—

SIR,—With reference to the proposal referred to in my Memo. No. 4961, of 30th ultimo, for making a road in continuation of Carnac Road, through into Queen's Road, I have the honor to forward a plan showing in yellow a house now standing on the proposed line to which the owner wishes to make additions and extensions almost tantamount to rebuilding it. He has, however, consented to sell it to the Municipality together with the ground on which it stands for Rs. 28,000, which is within the value estimated by the Executive Engineer. I beg strongly to recommend that sanction be given to acquiring it at this price. If the opportunity is not taken, probably, it will cost double as much to acquire when the road is made, and I cannot doubt that

the Corporation will sanction the construction of the entire road before long. The sum referred to can be met from available balances pending the raising of a loan for the whole work.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 3142. *Resolved:* "That the consideration of letter No. 6050, dated 12th instant, from the Commissioner to the Secretary, be postponed until the next meeting, or until the Corporation have decided whether they will proceed with the construction of the proposed new road at Dhobi Talao."

No. 3143. *Resolved*: "That the following be *recorded* :—Letter to the Secretary, No. 6309, dated 15th instant, from the Commissioner, reporting that he has sold the right of cultivating vegetables on about 8 acres, acquired for the extension of the Victoria Gardens, now vacant, and not likely to be laid out for some time, to Dhondoo Yessoo and Poonja Mukaji, for 8 months, for Rs. 280."*

No. 3144. *Resolved* : "That the following be *recorded* :—Letter to the Secretary, No. 6438, dated 16th instant, from the Commissioner, stating, with reference to his report of the purchase, from Messrs. Walsh, Lovett and Co., of 50 half-inch Siemen's meters at Rs. 30 each, and 50 three-fourths-inch Tylor's meters at Rs. 29-8-0, which report was *recorded* by the Committee, in their Resolution No. 10157, dated 10th January 1894, that he has sanctioned the payment to the said Company, of Rs. 80, being the amount of import duty actually paid for the meters imported by them after the passing of the Indian Tariff Act."

No. 3145. *Resolved*: "That the following be *recorded* :—Letter to the Secretary, No. 6490, dated 18th instant, from the Commissioner, reporting that he has accepted the offer of Mr. Sha Mahomed Surubhai, for the supply of mutton and beef required for feeding animals in the Victoria Gardens during 1894-95 : mutton, 19 lbs., at Rs. 3½ ; beef, 16 lbs., at Re. 1. The total estimated cost, about Rs. 2,000 per annum, to be debited to the grant for feed of animals, Victoria Gardens."

* The right has been sold for the first time this year.

Read the letter No. 6440, dated 16th instant, from the Commissioner to the Secretary, as under :—

SIR,—Referring to Resolution No. 2689 of 13th instant of the Standing Committee, placing my report on the question of filtration at Malabar Hill on the list of outstanding business, I have the honour to ask that the request made in the last para. of that report, viz., for the payment of a fee of £100 to Major Tulloch may be recommended for sanction to the Corporation. Major Tulloch's report bringing, as it does, our knowledge of the use of polarite up to date is of the greatest value as a record of facts and the fee proposed is, I submit, by no means an extravagant one.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 3146. *Resolved :* "That, as applied for by the Commissioner, in his letter to the Secretary, No. 6640, dated 16th instant, the Corporation be recommended to sanction the payment to Major Tulloch, of £100, being the amount of fee for preparing report on the best means for the filtration of Tulsi Water supply in Bombay. The charge to be met as an advance from Surplus Cash Balance to be adjusted hereafter against the Loan for providing for the cost of additional filter-beds for Malabar Hill reservoir, if, and when, the Loan is raised."

No. 3147. *Resolved* : "That, as applied for by the Commissioner in his letter to the Secretary, No. 6489, dated 18th instant, sanction be given to the sale to Messrs. Fleming & Co., of two 24" sluice valves, at Rs. 550 each."

No. 3148. *Resolved* : "That, as applied for by the Municipal Secretary and with reference to the Committee's Resolution No. 2220, dated 23rd ultimo, sanction be given to the payment of Rs. 50 per mensem, instead of Rs. 30, to provide for the acting arrangements in the Corporation's Office during Mr. Michael's absence."

No. 3149. *Resolved* : "That, with reference to letter, dated 14th instant, from the Chairman of the Committee of the Corporation appointed to investigate and report on the question of the inadequate and intermittent supply of water, the Corporation be

recommended to sanction the outlay of Rs. 500, from Surplus Cash Balance, to provide for the cost of printing work required by the Committee."

The following was referred to the Corporation :—

No. 3150. Letter to the Secretary, No. 6442, dated 16th instant, from the Commissioner, reporting on letter, dated 31st ultimo, from Messrs. Venkoo Balloo & Co., building contractors, asking that a portion of the fees they have been charged for the deposit of building materials may be remitted; and that the building fees may be altered.

Considered letter No. 6441, dated 16th instant, from the Commissioner to the Secretary, as under :—

SIR,—With reference to the Resolution of the Standing Committee, No. 13218 of the 7th March last, I have the honour to forward herewith an estimate of the cost of making and fixing Ratnagar's life-saving apparatus in the well on the east side of the Esplanade Road, opposite the Queen's Statue. The well is not a large one, and there have been cases of suicide in it. The amount can be met if the Corporation choose to sanction it out of the Surplus Cash Balance.

Estimated surplus in excess of what has already been appropriated to the budget for 1894-95	Rs.	3,50,000
Out of which have already been sanctioned, excluding temporary advances to be adjusted hereafter	Rs. 98,962 -1-1	
And the expenditure of...	„ 15,475-11-5	
Has been recommended for sanction.		1,14,437-12-6
Available Rs.		2,35,562-3-6

I have, &c., H. A. ACWORTH, Commissioner.

Proposed by Bhalchandra K. Bhatawadekar, Esq., seconded by Cowasjee Hormusjee, Esq.—

"That letter to the Secretary, No. 6441, dated 16th

No. 3151. instant, from the Commissioner, be forwarded to the Corporation with reference to their Resolution No. 12734, dated 26th February 1894, and with the intimation that if they approve of the making and fixing of one of Ratnagar's life-saving apparatus in the well on the east side of the Esplanade Road, opposite the Queen's Statue, the cost of the same, Rs. 862-3-10, can be debited to Surplus Cash Balance."

Amendment proposed by S. Rebsch, Esq., seconded by A. G. Viegas, Esq.—

"That the Corporation be informed that the cost of making and fixing one of Ratnagar's apparatus will be Rs. 862-3-10, but that the Standing Committee cannot recommend this expenditure."

The Chairman ruled that this *Amendment* was out of order.

The original motion was *carried* by 8 votes *against* 2 votes.

No. 3152. *Resolved*: "That letter from the Commissioner to the Secretary, No. 2474, dated 1st May 1894, on the subject of constructing a storm-water drain in Cruickshank Road and letter from ditto to ditto, No. 2473, of same date, forwarding plans and estimates of the cost of providing sewerage for part of Parel district be referred to the following Sub-Committee for enquiry and report.

"The Chairman, Mr. Rebsch, Mr. Cowasjee Hormasjee and Mr. K. M. Shroff."

No. 3153. *Resolved*: "That the following be laid on the table:—Letter, dated 16th instant, from Messrs. Ardaseer Framjee Moos and Nánábhái R. Rániná, stating that they have audited the weekly statements of receipts and disbursements at the end of each week for the months of March and April last, and compared them with the general and subsidiary ledgers and journals, and found them correct. Forwarding the usual summary and statement of their scrutiny of accounts."

No. 3154. *Resolved*: "That the following be *recorded*:—Memorandum No. 6452, dated 18th instant, from the Commissioner, forwarding analyses of Vehar and Tulsi waters for the current month, as under:—

Sample of unfiltered Tulsi water taken from the Inlet well of the Malabar Hill Reservoir on the 4th June 1894.

	Parts per million.
Free Ammonia.....	·04
Albuminoid Ammonia	·25

Sample of filtered Tulsi water taken from the syphon chamber of the Malabar Hill Reservoir on the 4th June 1894.

	Parts per million.
Free Ammonia.....	·02
Albuminoid Ammonia	·13

Sample of unfiltered Vehar water taken from the Inlet channel of the Bhandarwada Reservoir on the 4th June 1894.

	Parts per million.
Free Ammonia.....	·005
Albuminoid Ammonia.....	·16

Sample of filtered Vehar water taken from the filter channel of the Bhandarwada Reservoir on the 4th June 1894.

	Parts per million.
Free Ammonia.....	·01
Albuminoid Ammonia.....	·14

In accordance with notice of motion, it was—

Proposed by K. M. Shroff, Esq.—

No. 3155. "That the Municipal Commissioner be requested to lay before the Standing Committee, from time to time, particulars relating to all set-backs of properties that may be sanctioned by him under Sections 296 and 298 of the Municipal Act, such particulars to contain the number of square yards of land purchased, the rate and the amount of compensation for any property, wall, &c., that may be destroyed.

"That the information so furnished by the Commissioner should be forwarded to the Standing Committee from day to day, as the sanctions are given by him."

The motion was seconded by the Hon'ble Mr. Javerilal U. Yajnik, and

Carried.

The following statement* was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes, for the week ending 17th June 1894.

Read letter No. 6695, dated this day, from the Commissioner to the Secretary, as under :—

SIR,—With reference to the Resolution of the Corporation, No. 2881, dated 14th instant, sanctioning the hiring of 50 carts with bullocks and drivers at a cost of Rs. 9,067-8-0 up to

* *See* Appendix B.

30th September 1894, I have the honor to state that the Health Officer reports that there are large quantities of bullock stable litter and dung put on the public streets north and south of Elphinstone Bridge Road and that there are from 125 to 150 cart loads on one street only. There are large quantities on other streets also. He further states that the removal of this great and unusual collection is quite beyond the power of the Health Department with the reduced number of bullocks at its disposal at present. The Health Department is 102 pairs of bullocks short of the budgetted strength, and the Health Officer is not likely to be able to purchase more bullocks for some months. The difficulties have also increased on account of the incinerator, to which the revolving grid is being fixed, having ceased work from 1st instant. This work will be finished by the end of this month.

For the speedy and regular removal of these huge quantities the Health Officer requires 30 additional carts with bullocks and drivers up to the 30th September next, the hiring of which will cost Rs. 3,442-8-0, and requests that he may be authorised to engage them in anticipation of the sanction of the Standing Committee and the Corporation. Out of the sum of Rs. 3,442-8-0, Rs. 2,732-10-8 can be met out of savings in Feed Grant, Scavengering Branch, Health Department, and Rs. 709-13-4 by a transfer from savings to the Feed Grant, Halalkhor Branch.

Under the circumstances, I request the sanction of the Standing Committee and the Corporation to authorise the Health Officer to hire the 30 additional carts at once. I also request the sanction of the Standing Committee, and the Corporation to the payment of the expenditure out of savings above referred to.—I have, &c., H. A. ACWORTH, Commissioner.

No. 3156.

Resolved: "That letter No. 6695, dated this day, from the Commissioner to the Secretary, be forwarded to the Corporation with the recommendation that sanction be given to the hiring by the Health Officer of thirty additional pairs of bullocks and thirty carts with drivers, up to the 30th September next, at the cost of Rs. 3,442-8-0, Rs. 2,732-10-8 thereof, being met by transfer from savings in the Budget Grant for feed of bullocks, scavengering branch, and Rs. 709-13-4, by transfer from savings in the grant, for feed of bullocks, halalkhor branch."

Resolved : "That the following be circulated and brought on at a future meeting :—Memo-
No. 3157. randa Nos. 27987 and 27992, dated 28th March 1894, reporting the recent bursts of water mains. Memorandum No. 6532, dated 19th June 1894, from the Commissioner stating that it was scientifically correct to lay down mains on the Bombay end of the Tansa pipe, $1\frac{1}{8}''$ thick."

Resolved : "That the following be circulated and brought on at a future meeting :—Memo-
No. 3158. randum No. 6531, dated 19th instant, from the Commissioner, submitting explanation of the Health Officer as to why he considers that clouds have an influence on the condition of the Tulsi Water, asked for by the Standing Committee in their Resolution No. 1937, dated 16th May 1894."

Read letter No. 6669, dated this day, from the Commissioner to the Secretary, as under :—

SIR,—Under the terms of the contract entered into with Mr. Fazulbhoy Pirbhoy for the supply of sandstone, sand, shells and shingle during the current year, he is required to supply sandstone quarried outside the limits of Bombay at Rs. 7-4-0 per brass. This he has done up to now by bringing it from Jiw, but owing to the setting in of the monsoon the creek between Jiw and Danda has become impassable and he finds it impossible to obtain it from there during the rains. He, therefore, offers to supply it from an oart at Mahim at Rs. 7-1-0 per brass, that is, at 3 annas less than the contract rate. The Executive Engineer reports that the sandstone now offered is of a better quality than that supplied from outside the limits of Bombay, and that the arrangement is in every respect favorable to the Municipality. He further states that a very large quantity of sandstone is required for repairing roads during the monsoon, and recommends that the Contractor's offer may be accepted.

Under the circumstances, I request the sanction of the Standing Committee, under Section 69 (*e*) of the Act, to the arrangement above referred to and to the variation of the contract.—I have, &c., H. A. ACWORTH, Commissioner.

Proposed by S. Rebsch, Esq., seconded by Cowasji Hormusji, Esq.—

"That with reference to his letter No. 6669 of this
No. 3159. day's date, the Commissioner be informed that if the Contractor for the supply of

sandstone fails to supply such material the necessary quantity should be purchased at his risk and cost."

Carried.

BOMBAY, *27th June* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, Esq., *Chairman* ;
BHALCHANDRA KRISHNA BHATAWADEKAR, Esq., L.M. ; COWASJI HORMUSJI, Esq., G.G.M.C ; THE HON'BLE MR. FAZULBHOY VISRAM ; HURKISONDAS NURROTUMDAS, Esq. ; THE HON'BLE MR. JAVERILAL UMIASHUNKAR YAJNIK ; KAIKHOSRO N. KABRAJI, Esq. ; K. M. SHROFF, Esq. ; S. REBSCH, Esq., ASSO. M.I.C.E. ; ACCACIO G. VIEGAS, Esq., L. M. & S. ; R. H. VINCENT, Esq., C.I.E. ; CAPTAIN W. P. WALSHE.

H. A. ACWORTH, Esq., I.C.S., Commissioner ; and the SECRETARY.

The minutes of the meeting held on the 20th instant, were signed.

The seal of the Corporation was affixed to deeds of contract :—(1) With Messrs. Killick, Nixon & Co., for the supply of 250 tons Powell's Duffryn Cardiff coal, at Rs. 19 per ton, and 250 tons Davison's West Hartley coal, at Rs. 16-12 per ton, to be delivered at the Love Grove Pumping Station ; and (2) with Messrs. Garlick & Co., for paving with Indian Patent stone the flooring of the old boiler house at Love Grove.

Resolved : "That, as applied for by the Commissioner in his Memoranda, Nos. 6849 and 6965, dated 22nd and 23rd instant, sanction be given, under Section 351 (2) of Municipal Act, to the removal of the following structures built without permission :—

No. 3410.

Names of owners.	Where.
Mr. Narayendas Dwarkadas.....	Building at Nepean Sea Road.
Mr. Rustomji Cowasji Patel.....	Ditto at Khetwadi Back Road."

Resolved: "That sanction be given to the cutting off of water connections as per list accompanying the Commissioner's Memorandum No. 7313, dated this day."

No. 3411.

Read letter to the Secretary, No. 7135, dated 26th instant, from the Commissioner, as under :—

SIR,—The members of the Standing Committee and Corporation are aware that great incovenience is caused to the traffic by

the present insufficient width of the Gowalia Tank Road between the points marked A and B on the accompanying plan where accidents frequently occur. The minimum width of this portion of the road is 23'. The necessity for widening this portion is so great that the late Town Council thought fit so far back as 1886 to draw the attention of the Commissioner to it. There is no doubt that this improvement is very much needed, and it is also desirable in the interest of public convenience that it should be carried out and the block in the road removed if it could be done at a reasonable cost.

Last year Mr. Murzban asked for sanction to take up land under Section 299 of the Act, on the Gowalia Tank Road, and to negotiate with the owners of the properties standing on the portion of the road above referred to for the acquisition of the portions required from their respective properties. These portions are shown in scored green and yellow on the plan. He then negotiated with them and succeeded in inducing them to accept his offer of compensation. The property numbered I. belongs to Bai Jaiji, widow of Kavasji Sorabji Bhedwar, and that numbered II. to Bai Gulbai, widow of Dhunjibhai Kharsedji Shroff.

He estimates the cost of acquiring them as detailed below and strongly recommended their purchase :—

Bai Jaiji.

565·91 square yards at Rs 8 per square yard...	Rs	4527·28
Compound wall	,,	2485·06
Building	,,	4543·78
Trees	,,	355
	Rs.	11,911·12

Bai Gulbai.

328·87 square yards at Rs. 8 per square yard	,,	2,630·96
Buildings, &c.	,,	2,569·04
Trees	,,	1,800·00
	Rs	7,000·00

The cost in both these cases will be debited to the street improvement grant.

I may here mention that when in 1888-89, owing to the changes introduced by the present Municipal Act, on the subject of street improvement, Sir Charles Ollivant obtained Counsel's (Mr. Inverarity's) opinion with reference to the acquisition of land and to the sanction necessary before expenditure can be incurred he was advised that in cases where requisitions are made under Sections 298 and 299 of the Act, the Commissioner has the power, under Section 301 of the Act to determine and pay compensation for building or land or for any other damage consequent upon such requisitions. Since that time land, with or

without structures within the set-back line has been, and is being, taken up from time to time under the provisions of Sections 298 and 299 and compensation paid in accordance with this opinion.

The greatest portion of the area required in these two cases is vacant land which can be acquired under Section 299, and compensation paid by me according to the opinion above referred to, but as this course will not able the Executive Engineer to remove the portions of the two buildings standing within the regular line of the street, I request the approval of the Corporation to the whole arrangement above referred to. When the whole improvement is carried out the road will be 50′ wide.

The area to be taken up and the compensation to be paid have only recently been determined, but the removal of Bai Jaiji's house is almost complete, and I must explain that it has been through a misreading of the law that the sanction of the Corporation was not previously applied for, and in all such cases in future it will be applied for.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 3412. *Resolved* : "That, with reference to letter to the Secretary, No. 7135, dated 25th instant, from the Commissioner, the Corporation be recommended to sanction, under the terms of Section 289 of the Municipal Act 3 of 1888, the expenditure (1) of Rs. 11,911-12 for the purchase of 565·91 square yards, or thereabout, of land and trees standing thereon, compound wall and building, situate at Gowalia Tank Road, the property of Bai Jaiji, widow of Kawasji Sorabji Bhedwar, and shown as "I" in scored green on the plan marked A, dated this day, and filed in Supplement to Minute Books ; and (2) of Rs. 7,000 for the purchase of 328·87 square yards, or thereabout of land, trees and buildings standing thereon, situate on the same road, the property of Bai Goolbai, widow of Dhunjibhai Kharshedji Shroff, and shown as "II" in scored yellow on the said plan, these premises being required for the improvement of the said road. The cost in both cases to be debited to the grant for street improvement."

No. 3413. *Resolved* : "That, as applied for by the Commissioner in his letter to the Secretary, No. 6771, dated 21st instant, the Committee approve, under the terms of Section 91 (1) of

the Municipal Act, of his applying to Government for the acquisition, under the Land Acquisition Act, of 104 square yards, or thereabout, of land, the property of Mr. Dinkar Mahadeo, situate at Parel village main road, shown within red lines on the plan marked A, dated this day, and filed in Supplement to Minute Books, the land being required for a public purpose, namely, the erection of a public latrine thereon."

No. 3414. *Resolved* : "That the following be *recorded* :—Letter to the Secretary, No. 6883, dated 22nd instant, from the Commissioner, reporting that he has sold the right of cultivating a portion of the ground (area about 247,200 square yards), recently purchased from Bai Motlibai and Mr. Muncherji Framji Cama, for Agripada roads, to Malloo Syeboo, from 16th June to 31st October 1894, for Rs. 500."*

No. 3415. *Resolved* : "That the following be *recorded* :—Letter to the Secretary, No. 6685, dated 20th instant, from the Commissioner, stating, with reference to his report, of the sale, to Mangroo Jagga, of right of cultivating vegetables and rearing fish in Naigam Tank for 1894-95, for Rs. 250, which report was *recorded*, by the Committee, in their Resolution No. 111, dated 4th April 1894, that as the lessee did not pay the full amount of the right, his deposit of Rs. 50 was forfeited and orders were issued to re-sell the right. No one came forward on the day of auction to bid, but Mangroo Jagga himself was present and offered Rs. 100. As the Superintendent of Gardens has not been able to obtain any better offer, he (the Commissioner) has accepted Mangroo's offer of Rs. 100, and begs to report the same to the Committee."†

No. 3416. *Resolved* : "That, as applied for by the Commissioner in his letter to the Secretary, No. 7002, dated 23rd instant, sanction be given, under the terms of Section 69 (*e*) of the Municipal Act, to the variation of the contract, with Mr. Deoram Keshavji, for the construction of the sheep

* The right has been sold for the first time this year.

† Last year the sale realized Rs. 60.

and goat market at DeLisle Road, whereby the contract time for the completion of the work shall be extended up to 16th July next."

No. 3417. *Resolved*: "That, as applied for by the Commissioner in his letter to the Secretary, No. 7003, dated 23rd instant, sanction be given, under the terms of Section 69 (*e*) of the Municipal Act, to the variation of the contract, with Messrs. Hormasji Jamasji Mistri and Pherozeshaw Dhanjibhai Patel, for the construction of the stables for F & G Wards, Health Department, at Dadar, whereby the contract time for the completion of the work shall be extended up to 18th October next."

No. 3418. *Resolved*: "That, as applied for by the Commissioner in his memorandum No. 6645, dated 20th instant, sanction be given to the transfer of Rs. 108-5-5, from savings in the Conservancy Branch, Section I, Superintendence and Inspection, Health Department Budget, to Markets and Slaughter Houses, Section IX, Contingencies, same budget, to meet the amount of halalkhor tax in respect of new Foras Road Markets, as no provision was made in either the last or the current year's budget for the tax."

Considered Resolution of the Corporation No. 3330, dated 21st instant.

Proposed by Cowasjee Hormusjee, Esq., seconded by Hurkisondas Nurrotumdas, Esq.—

No. 3419. "That a sub-committee, consisting of the following gentlemen, be appointed to inquire into and report on the question of the improvement of First Marine Street. The chairman the Hon'ble Mr. Javerilal U. Yajnik, Mr. S. Rebsch, Mr. K. M. Shroff, and Mr. Cowasjee Hormusjee."

Carried.

No. 3420. It was agreed that the following be placed on the list of outstanding business :—Letter to the Secretary, No. 6050, dated 12th instant, from the Commissioner, requesting sanction to the

acquisition, at a cost of Rs. 28,000, of 555 square yards, or thereabout, of land and house standing thereon, the property of Mr. Adamji Vuliji, required as part of site of a road in continuation of Carnac Road into Queen's Road.

No. 3421. *Resolved* : "That, as applied for by the Commissioner in his letter to the Secretary, No. 6776, dated 21st instant, the Corporation be recommended to sanction the expenditure of Rs. 327 and Rs. 348, respectively, to meet the estimated cost of connecting the houses belonging to Messrs. Dharamsi Morarji Gokuldas and Ganpat Moroba Varde, situate at Girgam Back Road and Kandawadi Lane, respectively, with the Municipal sewer thereat, in order to prevent the serious nuisance which exists there."

No. 3422. *Resolved* : "That, as applied for by the Commissioner in his letter to the Secretary, No. 6772, dated 21st instant, sanction be given, under the terms of Section 516 (1) (*j*) of the Municipal Act, to the filing of a suit in the Court of Small Causes against Luxuman Khandooji, for the recovery of Rs. 35, on account of damage done by a khatárá, belonging to him, to a Municipal lamp and column at Nagdevi Street, on or about the 26th March 1894."

Proposed by the Hon'ble Mr. Javerilal U. Yajnik, seconded by K. M. Shroff, Esq.—

No. 3423. "That the following be placed on the list of outstanding business :—Letter to the Secretary, No. 2789, dated 5th ultimo, from the Commissioner, forwarding lists showing the special halalkhor charges levied on properties under Section 172 of the Municipal Act."

Carried.

Read letter to the Secretary No. 6711, dated 20th instant, from the Commissioner, as under :—

SIR,—With reference to the Resolution of the Standing Committee, No. 387 of 11th April 1894, forwarding petition from Mr. Hormusji Shapurji Katrak and others, complaining of nuisance caused by the open side-drain near the Framji Cowasji

Fire Temple at Karelwady, I have the honor to state that the Executive Engineer reports that the drain referred to is a source of nuisance during the eight dry months of the year.

With a view to do away with the nuisance, he recommends that the drain be ovoided at the bottom, covered with dhapas and gratings, and the necessary arrangements made for preventing the escape of gas from it into the streets during dry weather, and for admission of storm water into it during the rains.

The cost of the work, which is estimated to be Rs. 1,943, is debitable to the grant for repairs and alterations to drains. But as the balance of Rs. 2,207 available under this head will be required for the ordinary repairs to the drains in the City during the current year an additional grant is required and the work will be carried out this year, if the Corporation sanction the necessary expenditure, out of Surplus Cash Balance, otherwise provision will be made for it in the next year's budget.

The state of the Surplus Cash Balance is as under :—

Estimated surplus in excess of what has already been appropriated in the budget for 1894-95	Rs.	3,50,000
Out of which have already been sanctioned, excluding temporary advances to be adjusted hereafter.....	Rs. 98,962-1-1	
And the expenditure of.....	„ 16,337-15-3	
has been recommended for sanction		1,15,300-0-4
Available	Rs.	2,34,699-15-8

I have, &c.,—H. A. ACWORTH, Commissioner.

Proposed by Cowasji Hormusji, Esq., seconded by Bhalchandra K. Bhatawadekar, Esq.—

No. 3424.

"That petition to the Standing Committee, dated 6th April 1894, from Messrs. Hormusji Shapurji Katrak and others, and letter to the Secretary, No. 6711, dated 20th instant, from the Commissioner, reporting on the petition, be forwarded to the Corporation.

"That with a view to mitigate the nuisance caused by the open side-drain near Framji Cowasji Fire Temple at Karelwadi, the Corporation be recommended to sanction the expenditure of Rs. 1,943 from Surplus Cash Balance, to provide for the cost of ovoiding the drain in question at the bottom, covering it with

dhapas and gratings, and making the necessary arrangements for preventing the escape of gas therefrom into the streets during dry weather, and the admission of storm water into the drain during the rains.

"That Messrs. Hormusjee Shapurjee Katrak and others be informed accordingly."

Carried.

No. 3425. *Resolved*: "That the following be *recorded* :—Memorandum No. 7060, dated 25th instant, from the Commissioner, reporting the fall, on the 30th ultimo, of the roof of a portion of a shed (one storied including ground-floor) at Baboola Tank Road, the property of Mr. Adamjee Peerbhoy, the estimated loss was about Rs. 80. There were no casualties, the shed was very old."

No. 3426. *Resolved*: "That the following be *recorded* :—Letter to the Secretary, No. 6769, dated 21st instant, from the Commissioner, stating that, under Government Resolution, No. 4818, Revenue Department, dated 22nd July 1882, the Hindu burning and burial-ground at Tank Bandar was vested by Government in the Municipality for the use of the Hindu community in general and those residing in Mazagon and adjoining districts in particular. The area of the ground is 30,581 square yards and the boundaries are defined as follows :—On the East by Port Trust boundary marks ; West by *pucca* wall and public road ; North and South by walls which from time to time have fallen in places. The Commissioner is not aware that the Port Trustees have any claim to this land or anything connected with it."

No. 3427. *Resolved*: "That the following be referred to the Commissioner, in continuation of the Committee's Resolution, No. 2624, dated 13th instant :—Letter to the Chairman, Standing Committee, dated 23rd June 1894, from Mr. Hormusjee Muncherjee Cama, forwarding correspondence between his father, Mr. Muncherjee Framjee Cama, and the different departments of the Municipality, on the subject of the filling in of his ground on the north of the Victoria

Jubilee Technical Institute, Parel Road, and requesting that the papers may be circulated to members of the Committee in order to show that the land in question was flooded, and was not considered "low" before 1891."

The consideration of the following was postponed for a week :—Memorandum No. 6643, dated 19th instant, from the Commissioner, forwarding report on the prevention of waste water, asked for by the Standing Committee in their Resolution No. 7336, dated 1st November 1893.

The following return was read and *recorded* :—

Return of fires at Mahim, Foras Road, (Madaoji Daramji Manufacturing Co.), and Charni Road, (Bombay United Spinning and Weaving Mill), forwarded with Commissioner's Memorandum No. 6488, dated 18th June 1894.*

The following statement † was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes, for the week ending 24th June 1894.

The Commissioner handed in the following papers *re* supply of sandstone, which were read by the Secretary.

No. $\frac{N}{250}$

BOMBAY, *27th June* 1894.

TO THE MUNICIPAL COMMISSIONER, BOMBAY.

Re SANDSTONE CONTRACT.

SIR,—With reference to the interview we had with you this morning on behalf of our client, Mr. Fazulbhoy Peerbhoy, we enclose a petition of our client to the Standing Committee, and request you to place the same before to-day's meeting.—We are, &c., LITTLE, SMITH, NICHOLSON & BOWEN,

Solicitors, High Court.

The humble petition of Fazulbhoy Peerbhoy,

TO THE STANDING COMMITTEE
OF THE MUNICIPALITY, BOMBAY,

SHEWETH,—(1) In March last your petitioner entered into a contract for the supply of Joo sandstone to the Municipality for the year 1894-95. (2) Your petitioner was not informed as to the probable quantity required by the Municipality from time to time during the year; but he had stored at Joo a large quantity

* *See* Appendix C. † *See* Appendix B.

of sandstone amounting to about 10,000 brass. It is now lying at Joo, but your petitioner is unable to remove it either by road or water, as, during the monsoon, the roads are impassable for carts, and no vessel will ship the sandstone. (3) On the 7th of May last your petitioner was required to deliver immediately 1,200 brass of sandstones, and he commenced to bring the sandstone from Joo to Bombay, but he was unable, owing to the approach of monsoon, to bring more than about 500 brass. (4) Your petitioner laid these circumstances before Khan Bahadur Mr. Murzban, C.I.E., Engineer to Municipality, and requested him to allow your petitioner to supply Bombay sandstone during the monsoon. The said Mr. Murzban was willing to entertain your petitioner's request, but he stipulated for a reduction of 3 annas per brass. (5) Your petitioner submits that the use of Bombay sandstone in lieu of Joo sandstone would not make any appreciable difference in the work of making up the roads, and trusts that the Standing Committee will sanction the use of the Bombay sandstone, during the monsoon, at the reduced rate fixed by Mr. Murzban, in order that your petitioner may be saved from the losses he will incur if the Standing Committee insist upon the strict enforcement of the contract, and your petitioner, as in duty bound, will ever pray.

FAZULBHOY PEERBHOY.

BOMBAY, 27*th June* 1894.

Proposed by Cowasjee Hormusjee, Esq., seconded by S. Rebsch, Esq.—

No. 3429.

"That the Commissioner be requested to inform Messrs. Little, Smith, Nicholson & Bowen with reference to their letter to the Commissioner, of this day's date, that the Standing Committee adhere to their Resolution No. 3159, dated 20th instant, to the effect that, if the contractor for the supply of sandstone fails to supply such material, the necessary quantity should be purchased at his risk and cost."

*Carried.**

BOMBAY, 4*th July* 1894.

AT the meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, Esq., *Chairman*.
BHALCHANDRA KRISHNA BHATAWADEKAR, Esq., L.M.; COWASJEE HORMUSJEE, Esq., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, Esq.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJI, Esq.; K. M. SHROFF, Esq.; S. REBSCH, Esq., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, Esq., L.M. & S.; R. H. VINCENT, Esq., C.I.E.; CAPTAIN W. P. WALSHE.
H. A. ACWORTH, Esq., I.C.S., Commissioner; the ACTING CHIEF ACCOUNTANT, and the SECRETARY.

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* The Chairman took no part in the discussion of this matter.

The minutes of the meeting held on the 27th ultimo, were signed.

On the motion of the Chairman, it was *resolved* that,

No. 3661. from and after the 9th instant, the practice of sending out, on occasions, cheques on the Municipal fund for the signatures of members of the Committee, be discontinued, and that from that date members shall attend by rotation at the Municipal Office for signing cheques as per the terms of Section 113 of Act III. of 1888.

The Commissioner agreed that, from and after the date mentioned in the above resolution, cheques shall be prepared for the signatures of members of the Committee on Monday and Wednesday in each week.

The seal of the Corporation was affixed to deed of contract with Messrs. Littlewood and Pallonji, for covering storage basin at the Bhandarwada (John Hay Grant) Reservoir and constructing filters over it.

The seal was also affixed (1) to one attested duplicate debenture of the Bombay Municipal Sanitary Works Loan of 1885, No. 3389 NN., of Rs. 500; and (2) to 20 attested duplicate debentures of the Tansa Water Works Loan, Nos. 925-26 to 963-64, of Rs. 1,000 each.

Resolved: "That, as applied for by the Commissioner

No. 3663. in his memoranda Nos. 7265, 7542 and 7770, dated 27th and 29th ultimo and 2nd instant, sanction be given, under the terms of Section 351 (2) of Municipal Act, to the removal of the following structures built without permission :—

Names of owners.	Where.
The Manager of the Wadia Mills	...Shed at DeLisle Road.
Mr. J. M. Remedios	.....Privy near Mahim Railway Station.
„ E. H. Barnes	.....Shed at No. 219, DeLisle Road."

Resolved: "That sanction be given to the cutting off

No. 3664. of water connections as per list accompanying the Commissioner's memorandum No. 7996, dated this day."

No. 3665. *Resolved* : "That, subject to the granting of the leave undermentioned by Government, the Standing Committee hereby assent, under Section 59 (1) (*a*) of the Municipal Act III. of 1888, to privilege leave being granted to Mr. H. A. Acworth, I.C.S., Municipal Commissioner, for a period of 2 months and 30 days, from 18th proximo, as per the terms of his letter to the Secretary, No. 7821, dated 2nd instant."

No. 3666. *Resolved* : "That the following be *recorded* :—Letter to the Secretary, No. 7457, dated 28th ultimo, from the Commissioner, reporting, as required by Section 92 (*a*) of the Municipal Act, that he has sold by public auction the right to cut grass from the ride on Clerk Road and the foot-path abutting the same, from Tardeo to the B. B. & C. I. Railway crossing near the Mahalakshmi Station (the approximate area of the ground, 22,450 square yards), to Asana Baloo, up to the end of September 1894, for Rs. 125." *

No. 3667. *Resolved* : "That the following be *recorded* :—Letter to the Secretary, No. 7733, dated 30th ultimo, from the Commissioner, reporting, as required by Section 69 (*d*) of the Municipal Act, that he has sanctioned the purchase, from Mr. Shankerrao Baba Mandrupkar, of 11,750 iron enamel painted oval house number plates with raised numbers $3\frac{3}{4}'' \times 3''$ in size for one or two figures or letters, $4\frac{3}{4}'' \times 3\frac{1}{2}''$ for 3 figures or letters and $6'' \times 3\frac{1}{2}''$ for 4 figures or letters at the rate of Rs. 17 per 100. The cost to be debited to the grant of Rs. 2,500, provided in the budget for the current year, for the purchase of plates and boards."

No. 3668. *Resolved* : "That the following be *recorded* :—Letter to the Secretary, No. 7446, dated 28th ultimo, from the Commissioner, reporting the purchase from Mr. Alex. McKenzie, of new table for the Council Hall, at a cost of Rs. 750."

* Last year Rs. 87 were realized for this right.

Resolved : " That the following be *recorded* :—Letter to the Secretary, No. 7613, dated 29th ultimo, from the Commissioner, reporting that he has sold the following rights for cutting grass, tapping date-trees, &c., from Municipal ground between Dadar and Matunga Roads, for the year ending 31st May 1895."

No. 3669.

Description of the right sold.	Name of the party to whom the right sold.	Amount realized.	No. of trees.
		Rs.	
1. Drawing toddy from date-trees.	Nasarwanji Behramji Patraji.	75*	51
2. Do. do. brab trees.	Budia Vithul	25*	50
3. Do. do. cocoanut trees	Hormasji Nasurwanji.	9*	18
4. Cultivating and cutting grass and collecting fruits from trees other than those given above.	Mangroo Jagga ...	100†	Area of ground 48,000 square yards.

It was agreed that the consideration of letter to the Secretary, No. 7707, dated 30th ultimo, from the Commissioner, be postponed, and that he be requested to report the total amount of the extra works to be executed by Messrs. Spencer & Co. in connection with their contract for constructing the Fort Fire Brigade station.

No. 3670.

Resolved: " That, as applied for by the Commissioner in his letter to the Secretary, No. 7773, dated 2nd instant, sanction be given, under the terms of Section 69(*e*) of the Municipal Act, to the variation of the contract with Messrs. Hormusji Jehangir & Co., for the construction of Gilder Road, whereby the contractors may be allowed to deposit a further sum of Rs. 4,000 in Port Trust bonds in lieu of the retention of 10 per cent. from their monthly certificates for work done."

No. 3671.

* These rights have been sold for the first time this year.
† Last year the sale realized Rs. 20.

No. 3672. *Resolved*: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 7772, dated 2nd instant, sanction be given to the payment of an allowance of Rs. 15 per mensem to the Accounts Clerk, Water Works Department, during such time as the alterations of the Bhundarwada Reservoir are continued. The charge to be debited to savings in the grant for salary of a temporary clerk on Rs. 30 per mensem, who will not be employed."

On the motion of Hurkisondas Nurrotumdas, Esq., it was

No. 3673. *Resolved*: "That, with reference to letter to the Secretary, No. 7771, dated 2nd instant, from the Commissioner, the Standing Committee think that it is advisable to postpone the sale of the plots of land along Connaught and Sussex Roads for a short time. That the Committee approve of the terms of commission to be paid to the auctioneers."

No. 3674. *Resolved*: "That, as applied for in his letter to the Secretary, No. 7706, dated 30th ultimo, from the Commissioner, sanction be given, under the terms of Section 92 (*b*) of the Municipal Act, to the acceptance by him of the offers (1) of Mr. Jetha Visram, for the purchase and removal of building materials of old bigaries' chawl at Bori Bandar, for Rs. 900; and (2) of Mr. Adamji Tajbhai for ditto of a small thatched chawl thereat, for Rs. 90."

No. 3675. *Resolved*: "That, as applied for by the Commissioner in his memorandum No. 7659, dated 30th ultimo, the Corporation be recommended to sanction the writing off of (1) Rs. 3,157-10-1, from the Live Stock return of the Health Department, being the book value of 2 horses sent to Pinjrapol, 38 bullocks which died, and 2 which were destroyed, during the quarter ending 31st May 1894; and (2) Rs. 98-13-4, from the Live Stock return of the Markets

and Slaughter Houses Department, being the book value of 1 bullock which died on the 22nd March 1894."*

No. 3676. *Resolved*: "That, as recommended by the Municipal Secretary, sanction be given, under Section 8 of the new Pension Regulations, to Shaik Ebrahim valad Shaik Ismail, peon, Standing Committee and Corporation's Office, being allowed to contribute towards the Pension Fund from 1st ultimo."

The consideration of the Report of the Sub-Committee on the question of the construction of storm-water drain in Cruickshank Road, and of the provision of sewerage for part of Parel district, was postponed till the next meeting.

No. 3677. *Resolved*: "That the consideration of the following be postponed for a week, and that, in the meantime, the papers be re-circulated:—

Memorandum No. 2804, dated 5th May 1894, from the Commissioner, forwarding, with reference to the Committee's Resolution No. 1752, dated 31st May 1893, statement showing (1) the number of cases during the past three years in which agreements for set-backs have been entered into by the Municipality with the owners of private properties; and (2) the estimates of the probable cost which would have been incurred if all the properties had been immediately acquired."

No. 3678. *Resolved*: "That the following be laid on the table:—Letter, dated 29th ultimo, from Messrs. Ardaseer Framjee Moos and Nánábhái R. Rániná, stating that they have audited

* *Causes of death.—Horses* 2, Sun-stroke; *bullocks* 6, Rinderpest; 1 Enlargement of heart, liver, &c.; 20 Old age and general debility; 4 Foot-and-mouth disease; 2 destroyed; 3 Inflammation of heart, lungs, &c.; 1 Fatty degeneration of heart, &c.; 1 Disease of heart; 1 Disorder of lungs, &c.; 1 Cancer of horn; 1 pneumonia; 1 Disorder of liver, &c.; Total 42.

Where died.—37 Bullock-Hospital, 2 Mahim stables (G. Ward), 1 Kamathipura stables (E Ward), 1 Tardeo Flats, 1 Grass Market stables (C Ward): Total 42.

Casualty percentage per month on the whole strength of 1,924 bullocks is 6.

the weekly statements of receipts and disbursements at the end of each week for the month of May last, and compared them with the general and subsidiary ledgers and journals, and found them correct. Forwarding the usual summary and statement of their scrutiny of accounts."

No. 3679. *Resolved* : "That the following be referred to the Commissioner, in continuation of the Committee's Resolution No. 1469, dated 9th May 1894, and the Corporation's Resolution No. 3091, dated 18th June 1894, for favour of remarks. Further letter (without date) from Mr. Ahmed Mamood Surti to the Corporation on the subject of the payment of compensation to him in respect of land taken up from his properties at Nizam and other Streets for the improvement of those thoroughfares."

No. 3680. *Resolved* : "That the consideration of report on the prevention of waste water forwarded with the Commissioner's memorandum No. 6643, dated 19th ultimo, be postponed for a fortnight, and that, in the meantime, when the report is received it be circulated."

The following return was read and *recorded*:—

Returns of fires at Frere Road and Sarang Street (Carnac Bridge Road), forwarded with Commissioner's memorandum No. 7823, dated the 2nd July 1894.*

The following statement† was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes, for the week ending 1st July 1894.

Resolved : "That the following be referred to the Commissioner for favour of remarks :—

No. 3682. Petition to the President and Members of the Corporation, dated this day, from Mr. Khodabux Allum, praying that he may be allowed to open a stall in the neighbourhood of private market at Dadar for the sale of mutton."

* *See* Appendix C. † *See* Appendix B.

In reply to the Hon'ble Mr. Javerilal U. Yajnik, the Commissioner said he would endeavour to make arrangements for the inspection by the Committee of the ejector chambers of the new sewerage system for Colaba.

The Commissioner having drawn attention to the terms of the Government of India's Notification, as per margin, and stated that the Corporation holds such 4 per cent. notes to the amount of Rs. 4,63,000 asked the Committee's sanction to the re-investment of that sum in Government of India $3\frac{1}{2}$ per cent. Loan as per up terms of the said notification.

Accounts and Finance 1—No. 3257, dated Simla, 30th June 1894, notifying that all notes of the 4 per cent. Loan of 1842-43 will be discharged at the Public Debt Office, Bank of Bengal, Calcutta, November 1st, 1894; but that proprietors of these notes will have the option (to be exercised before noon of Saturday, July 28th, 1894,) of tendering their notes for reduction of interest from 4 per cent. to $3\frac{1}{2}$ per cent., such reduction to have effect from August 1st, 1895.

Resolved: "That, subject to the opinion being given by the Solicitors to the Municipality that it is competent to the Standing Committee to sanction the conversion of the Rs. 4,63,000 in Government of India Loan paper of the years 1842-43, held by the Corporation, into $3\frac{1}{2}$ per cent., Government of India paper to be issued under the terms of the Government of India's notification No. 3257 (Accounts and Finance, Public Debt), dated 30th June 1894, the Standing Committee sanction the conversion of the said Rs. 4,63,000 into $3\frac{1}{2}$ per cent. Government of India paper. That, meantime, the Commissioner be requested to consult the Solicitors, and that, if they advise, it is necessary to apply for the sanction of the Corporation to such conversion; that such sanction be asked for, as urgent business, at their meeting to be held to-morrow, or at any adjournment thereof.

No. 3684.

BOMBAY, 11*th July* 1894.

AT the meeting of the Standing Committee held this day, there were present:—

G. W. ROUGHTON, Esq., *Chairman*.
BHALCHANDRA KRISHNA BHATAWADEKAR, Esq., L.M.; COWASJEE HORMUSJEE, Esq., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, Esq.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, Esq.; K. M. SHROFF, Esq.; S. REBSCH, Esq., Assoc. M.I.C.E.; ACCACIO G. VIEGAS, Esq., L.M. & S.; R. H. VINCENT, Esq., C.I.E.; CAPTAIN W. P. WALSHE.
H. A. ACWORTH, Esq., I.C.S., Commissioner; and the SECRETARY.

The minutes of the meeting held on the 4th instant, were signed.

Regarding the question of the signing of cheques, it was agreed that the duty of so signing be undertaken in regular turn by the members serving by rotation from month to month, for the audit of the weekly statement of accounts.

No. 3957.

The seal of the Corporation was affixed (1) to deed of contract with Messrs. Spencer & Co., for the laying of pipe-sewer, construction of manholes on the pipe sewer, construction of automatic flush tank and erection of metal vent shafts in Kalachauki Road; (2) to deed of agreement with Messrs. Suggaji Ramji and Tukaram Daji, for right to cultivate the reclaimed Municipal ground at Coorla for one year from 1st April 1894 to 31st March 1895, for Rs. 9,000; and (3) ditto with ditto ditto at Tardeo, ditto ditto, for Rs. 10,000.

The seal was also affixed to deed of agreement between Mr. Furdoonjee Merwanjee Banajee and Jáijee Merwanjee, wife of Mr. Muncherjee Dadabhoy Banajee and the Corporation, securing to the Municipality the right to acquire, at any future time, the set-back of property at No. 6, Nanabhoy Lane, without payment of any compensation in respect of the unauthorised work indicated on the plan annexed to the deed, and at the rate of Rs. 20 per square yard for any land shown on the plan to be there taken up, inclusive of any loss, damage or expense sustained by them by reason of such acquisition.

Resolved: "That, as applied for by the Commissioner, in his memoranda No. 8066, dated 5th instant, and Nos. 8412 to 8414, dated 9th idem, sanction be given, under Section 351 (2) of Municipal Act, to the removal of the following structures built without permission :—

No. 3962.

Names of owners.	Where.
Mr. Chiman Lalji Maharaj.....	Building at No. 213, Bhuleshwar Road.
Hadji Mia Hadji Abdul Ahmed Kandwani	Do. at Nos. 9-11, Duncan Road.
Mr. Narsu Nagu	Shed at Dharavi Road.
Mr. Narayen Bhandari	Do. at Mori Road, Mahim."

No. 3963. *Resolved*: "That sanction be given to the cutting off of water connections as per list accompanying the Commissioner's memorandum No. 8663, dated this day."

No. 3964. *Resolved*: "That, with reference to letters to the Secretary, Nos. 7707 and 8642, dated 30th ultimo and 10th instant, from the Commissioner, the Standing Committee accord their sanction, under the terms of Section 69 (*e*) of the Municipal Act, to the variation of contract with Messrs. Spencer & Co., for the construction of Fire Brigade Station, Fort, whereby the rates fixed by the Executive Engineer for certain extra works and supplies, as per list attached thereto, may be sanctioned."

No. 3965. *Resolved*: "That, as applied for by the Commissioner in his letter to the Secretary, No. 8113, dated 5th instant, sanction be given, under the terms of Section 92 (*b*) of the Municipal Act, to the acceptance by him of the tender of Aga Mirza Ali Akbar, the only tender received, for the right of selling to the public, refreshments at the refreshment room in the Victoria Gardens, for a period of three years, from 1st August 1894, on payment of Rs. 150 per annum, *plus* Rs. 25 per mensem as rent for the use of the room therein for the said period.*

"That this sanction is given, subject to the contract containing a clause that the lessee shall obtain, if necessary, a license from the Commissioner of Police, and that in the event of the lessee failing to do so, the Municipal Commissioner shall be at liberty to terminate the contract, and the lessee shall have no claim to compensation in respect of the said contract being so terminated."

No. 3966. *Resolved*: "That the following be *recorded*:—Letter to the Secretary, No. 8017, dated 4th instant, from the Commissioner, reporting, with reference to the Corporation's Resolution No. 2400, dated 12th June 1893 (sanctioning the expen-

* Last year the right realized Rs. 120, in addition to the rent of Rs. 25 per mensem.

diture of Rs. 2,500 for the purchase of casket to contain the address presented to H. R. H. the Duke of York), that the casket was obtained from Messrs. Hamilton & Co., at a cost of Rs. 2,500."

Resolved: "That the following be *recorded*:—Letter to the Secretary, No. 8265, dated 6th instant, from the Commissioner, reporting that he has sold the rights of cutting grass from Municipal ground for one year, from 1st June 1894 to 31st May 1895, as per following statement:—

No. 3967.

No.	Names of places.	Nature of rights.	Description of land.	Offers recommended to be accepted.	Amount.
					Rs. a. p.
1	Land at Malabar Hill Reservoir.	For cutting grass.	About ½ acre slope of reservoir, and 2 acres of rough land.	Mulharrao Mukund.	40 0 0*
2	Land at Tulsi pipe line from Mahim to Mahaluxmi.	Do. ...	A strip of 50 feet wide, but taken up for pipe and road.	Do. ...	40 0 0*
3	Land at Tansa pipe line from Kurla Creek to Matunga Road near Futka Tank.	Do. ...	A strip 100 feet wide, but taken up for pipe, tram line, road, &c.	Do. ...	20 0 0*

It was agreed that letter to the Secretary, No. 8015, dated 4th instant, from the Commissioner, and return forwarded therewith, of irrecoverable bills amounting to Rs. 652-7-2, in respect of Municipal rates and taxes, be circulated and brought on at the next meeting.

Read letter to the Secretary, No. 8255, dated 6th instant, from the Commissioner, as under:—

SIR,—I have the honour to state that Messrs. Jiwanji Dhanjibhoy & Co., contractors for the construction of the new mutton market in the compound of the Arthur Crawford Markets, were asked by the Executive Engineer, while the work was in progress, to paint the corrugated iron roofing three coats in oil, for which work they claim Rs. 2,852 at the schedule rates. Their con-

* Last year the sale of these rights realized the same amount.

tention is that, under the terms of the specification, they are required to paint the cast-iron and wrought-iron work only, and that no mention is made therein of the painting of the corrugated iron roofing. In the clause referred to, it is stated that the schedule rates of cast-iron and wrought-iron work shall include the cost of painting, but nothing is mentioned therein about corrugated iron sheets. It is doubtful whether the rates for cast-iron and wrought-iron work were intended to include the cost of painting corrugated iron sheets.

The Executive Engineer reports that corrugated iron sheets work, cast-iron work and wrought-iron work are separately specified in the contract, and that it is, therefore, somewhat doubtful whether the corrugated iron sheet work was intended to be included in the wrought-iron work when the specification was drawn up. He further states that a Court of law will probably, in a case like this, give the benefit of the doubt to the contractors.

Under the circumstances, I submit their claim for the consideration of the Standing Committee. If the Standing Committee are inclined to sanction the payment of Rs. 2,852 claimed by the contractors, it can be met from savings in the grant for the work.

The Executive Engineer will be instructed to make this point more clear in future contracts.—I have, &c.,

H. A. ACWORTH, Commissioner.

Proposed by Bhalchandra K. Bhatawadekar, Esq.—

That, under the circumstances stated in the Commissioner's letter to the Secretary, No. 8255, dated 6th instant, the question be postponed till the Commissioner can inform the Committee whether there is any precedent for such charges being made.

Not seconded.

Proposed by R. H. Vincent, Esq., seconded by S. Rebsch, Esq.—

No. 3969.

"That, under the circumstances stated in the Commissioner's letter to the Secretary, No. 8255, dated 6th instant, sanction be given to the variation of the contract with Messrs. Jivanji Dhanjibhai and Co., the contractors for the building of the new mutton market, Arthur Crawford Markets, to allow of the payment to them of charges amounting to Rs. 2,852, for additional work done by them in painting with three coats of oil the corrugated iron roofing of the new market."

On a division, there were 6 votes *for* and 1 vote *against* the motion, which was *carried.*

Considered letter to the Secretary, No. 8254, dated 6th instant, from the Commissioner, as under :—

SIR,—With reference to the Resolution of the Corporation No. 11644, dated 1st February 1894, sanctioning Rs. 20,000 from Surplus Cash Balance for providing additional machinery and plant for lighting the Municipal Offices and the Arthur Crawford Markets by electricity, and the monthly working expenditure of Rs. 700, as per margin, plus Rs. 105 per mensem, for Sinking Fund, I have the honour to state that Messrs. John Fleming & Co. have completed the work of providing the additional machinery and plant, and that the Executive Engineer now requests sanction to employ the establishment referred to above. But as the source from which the cost of the establishment is to be met has not been mentioned in the resolution, I request the sanction of the Standing Committee and the Corporation to the expenditure up to the end of the current financial year, amounting to Rs. 5,600, being met partly out of savings in the grant for lighting the Arthur Crawford Markets by gas and partly by an additional grant from Surplus Cash Balance, *viz.*, Rs. 3,894, from the savings which will be effected by discontinuing gas lighting, and Rs. 1,706 from Surplus Cash Balance.

22½ Tons coal at Rs. 18 per ton	...Rs.	405	
Oil, waste, packing, &c. ...	... ,,	50	
Repairs and renewals	... ,,	50	
1 Driver at Rs. 45	... ,,	45	
1 Fireman at Rs. 18	... ,,	18	
1 Assistant Fireman at Rs. 15	... ,,	15	
1 Coalman at Rs. 10	... ,,	10	
1 Electric light attendant at Rs. 40.	,,	40	
1 Electric light assistant at Rs. 20.	,,	20	
Allowance to the Workshops Foreman.	... ,,	25	
2 Coolies at Rs. 10 each ...	... ,,	20	
	Rs...	698	

or, say, Rs. 700.

Amount of the estimated surplus in excess of what has already been appropriated in the budget for 1894-95 is ...Rs. 3,50,000 0 0

Out of which expenditure to the extent of Rs. 98,962-1-1 has already been sanctioned, excluding temporary advances to be adjusted hereafter ... ... ,, 98,962 1 1

Expenditure recommended for sanction. ,, 18,780 15 3

Rs. 1,17,743 0 4

Available Rs. 2,32,256 15 8

I may here point out that as the initial cost was sanctioned by the Corporation from Surplus Cash Balance, sanction for the Sinking Fund of Rs. 105 per month was not required. The necessary provision will be made in the ensuing year's budget.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 3970.

Resolved: "That letter to the Secretary, No. 8254, dated 6th instant, from the Commissioner, be forwarded to the Corporation, with reference to their Resolution No. 11644, dated 1st February last, and with the recommendations that sanction be given to the expenditure of Rs. 700 per mensem from 1st August up to the end of the current financial year, for the cost of establishment, coal, &c., as per margin, for lighting the Crawford Markets and the Municipal Offices with electricity. The cost, Rs. 4,900, being met, Rs. 3,903 from savings in the grant for lighting the Markets by gas, and Rs. 997, from Surplus Cash Balance."

22½ Tons coal at Rs. 18 per ton	...	...Rs. 405
Oil, waste, packing, &c.	...	... „ 50
Repairs and renewals	...	... „ 50
1 Driver at Rs. 45	...	... „ 45
1 Fireman at Rs. 18	...	... „ 18
1 Assistant Fireman at Rs. 15	...	... „ 15
1 Coalman at Rs. 10	...	... „ 10
1 Electric light attendant at Rs. 40	...	... „ 40
1 Electric light assistant at Rs. 20	...	... „ 20
Allowance to Workshops Foreman	...	... „ 25
2 Coolies at Rs. 10 each	...	... „ 20
		Rs... 698

or, say, Rs. 700.

No. 3971.

Resolved: "That, as applied for by the Commissioner in his letter to the Secretary, No. 8443, dated 9th instant, sanction be given, under the terms of Section 381 of the Municipal Act, to the serving of notice on Mr. Hirji Ardeshir Dadysett, requiring him to carry out the drainage arrangements of the dhobis' washing place on his property at Walkeshwar Road, as owing to the want of drainage arrangements thereat great nuisance is caused, regarding which the Health Officer has frequently complained."

No. 3972.

Resolved: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 8369, dated 7th instant, sanction be given to the Commissioner, fixing, under Sections 161 (2) and 186 (3) of the Municipal Act, the fees for allowing inspection of and taking extracts from entries (1) of the

Assessment Book kept under Section 156 of the Act, and (2) of the vehicles and animal tax book kept under Section 186 of the same, at Re. 1 per entry."

Read letter to the Secretary, No. 8061, dated 4th instant, from the Commissioner, as under :—

SIR,—I have the honour to report that the Commissioner of Police requires all the space now occupied by men, horses and deadstock of the Fire Brigade at the Police head-quarters at Byculla, for the accommodation of his men, and, in consultation with the Chief of the Fire Brigade, I have selected a bungalow with stabling and servant's quarters in Nesbit Lane, which will accommodate the staff thus displaced, and for which the owner demands Rs. 175 a month as rent. We are not likely to obtain the space we want at a less rent in the immediate vicinity, and I request, therefore, that a lease may be entered into at this rate for two years. I enclose copy of the proposed lease. The new quarters at Sankli Tank will not be ready for two years.

On the handing over to the Commissioner of Police of the quarters now occupied by the Fire Brigade at Byculla, the rent charged to Government will be increased from Rs. 600 to Rs. 820 per month. The rent charged by the Municipality to the Fire Brigade for these quarters is Rs. 66-10-8 per month, which will be a saving, and to this must be added Rs. 20 per month, budgetted as house-rent for an Engineer who has now been accommodated in the Municipal buildings at Gunbow Street. The savings to the Fire Brigade under the head of rent will thus be Rs. 740, leaving a sum of Rs. 572-8-0 to be provided for, assuming the arrangement to be sanctioned from 15th instant. This may be met partly by a transfer of Rs. 232 of savings already accrued under the head of Establishment, and the balance, Rs. 340-8-0, by a transfer from Section II, Rent, Repairs and Miscellaneous Fire Brigade Budget.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 3973. *Resolved* : " That letter to the Secretary, No. 8061, dated 4th instant, from the Commissioner, be forwarded to the Corporation with the recommendation that sanction be given to the Commissioner's leasing from Mr. Dhunjeebhoy Merwanjee Jeejibhoy, for a period of two years from 15th idem, bungalow, with stabling and servants' quarters in Nesbit Lane, for occupancy by the Fire Brigade Staff, hitherto quartered at Byculla Police Office.

2. "That, subject to the approval of the Corporation, sanction be given to the transfer of Rs. 572-8-0 as under, to provide for these arrangements to the end of the current year, namely, (1) Rs. 232, from Section I, Establishment, Fire Brigade, and (2) of Rs. 340-8-0 from Section II, Rent, Repairs, and Miscellaneous (Contingencies), same department, to Section II, Rent of Fire Stations and Quarters."

No. 3974.

Resolved: "That a Sub-Committee consisting of the Chairman, the Hon'ble Mr. Javerilal U. Yajnik, Mr. Rebsch, Mr. Shroff and Mr. Bhalchandra K. Bhatawadekar, be appointed to consider the plans and estimates of the proposed new road from Dongarsi Road to Banganga Tank and thence to Narayan Dabholkar Road, and to suggest, if they think fit, any alterative proposal."

No. 3975.

Resolved: "That the following be *recorded*:—Letter to the Secretary, No. 8256, dated 6th instant, from the Commissioner, stating, with reference to para. 2 of the Standing Committee's *Resolution* No. 1134, dated 2nd May 1894, that the amount of overtime wages paid to the workmen of the Municipal Workshops during the year 1893-94 was Rs. 308-8-8, and that paid to the labour staff of the Water Works Department was Rs. 1,652-5-5, as per two statements submitted therewith."

Considered the following:—

FILTRATION OF THE TULSI WATER.

16th May 1894.

THE sub-committee of the Standing Committee, appointed on the 11th April 1894, as per margin, beg to report that they have carefully considered the proposals of the Commissioner for constructing filter-beds over the distributing basin of the Malabar Hill Reservoir, and that in order to be in a better position to judge of the merits of the scheme, they have visited the Reservoir and endeavoured to ascertain, to the best of their ability, the

No. 392. *Resolved*: "That a sub-committee consisting of the Chairman, Mr. Rebsch, Mr. Carroll, Mr. Bhalchandra K. Bhatawadekar, and the Hon'ble Mr. Javerilal U. Yajnik, be appointed to consider and report on Letter No. 27731, dated 20th ultimo, from the Commissioner, on the subject of the construction of filter-beds at the Malabar Hill Reservoir."

advantage to be derived from the proposed extension of the filtration area. Experience, especially that of the past few days, has shown that, of the three sources of water supply of the City that derived from the Tulsi Lake, is the one which most requires filtration. The existing filter-beds only cover an area of 5,250 square yards, that is, an area capable of providing for the efficient cleansing of about 2,100,000 gallons per day, and the storage of filtered water is only 9,798,000 gallons, but by constructing 6,040 square yards of additional filter-beds in the existing distributing basin, the storage of filtered water, as stated in para. 11 of the Commissioner's letter, will be increased to 15,957,000 gallons, or by 63 per cent., and the entire quantity of water flowing into the Reservoir will be efficiently filtered and converted into thoroughly wholesome and potable water before being distributed to the City.

The sub-committee directed their enquiries to the question of the use of polarite as an additional means of securing perfect filtration, and it seemed the more necessary to consider this question, as the opinion has been expressed that by the use of that material, 1,200 gallons per square yard could be filtered in place of the 400 gallons through sand. But polarite, however valuable its qualities in other respects, does not appear to possess this power of cleansing water of suspended vegetable impurities, and the sub-committee have come to the conclusion that, for the present, at any rate, the filters should consist of sand only. Moreover, the water will obviously not pass more rapidly through sand because it has to pass through polarite afterwards, and it is not possible, whether with or without polarite, to get a higher average rate than about 450 gallons per square yard per day. The addition or otherwise of polarite does not, therefore, supersede the necessity for extending the sand filters, and should be considered quite independently of the latter question. On this point they direct the attention of the Standing Committee to the following extract from para. 9 of Mr. Acworth's letter :—

"Having, however, lately read the report of the Royal Commission on the London water-supply, dated 8th September 1893, I have been struck by the facts that no other method of filtration except through sand seems to have suggested itself to them, a circumstance hardly consistent with the supposed great value of polarite as a purifier, and that they seem to attach much more importance to the efficacy of a filter as a means of arresting bacteria than for any other purpose. 'The water question,' they say (para. 143), 'has in fact passed from the domain of chemistry into that of biology.' The Commissioners speak in high terms of the method of filtration in use in the Metropolis, which, it should be borne in mind, is universally the same as our own, *i.e.*, through sand, but say (para. 155) that 'occasionally

'* * * the water is delivered in an unsatisfactory condi-'tion, the explanation of such fallings off from the standard 'being the re-laying of the filtering material in some of the 'beds and the consequent necessity of *allowing the water to pass 'at far too rapid a rate through such* other filters as are still 'available for use.' The inference from this is that where filtration is rapid it is faulty, and a rate of 1,500 gallons through sand and 5,000 through polarite would, apparently, not have satisfied the Commissioners, and from a biological point of view must, I presume, be far less efficacious than a rate of 400 gallons through sand. The average rate of filtration of the London water-supply is somewhere between 400 and 450 gallons per square yard per day (para. 61 of the report)."

The point which must be clearly borne in mind is that owing to the heavy deposit of vegetable matter in the Tulsi water, the filter material becomes rapidly choked, and that the result of the recorded observations is that 400 gallons per square yard of filter-bed is as much as can be properly filtered in the 24 hours. This accords with the opinion of Sir John Fowler, who also advised the Corporation to defer the addition of polarite until experience has shown the insufficiency of sand filtration, as it will always be easy at any subsequent period to add polarite, if the Corporation see good reason for doing so.

The sub-committee therefore recommend that the proposals now made by the Commissioner be sanctioned at a cost of Rs. 1,86,000, as against the budget provision of Rs. 2,00,000. This will provide for the construction in the distributing basin of the additional filters required to deal with the whole of the Tulsi supply and for the required alterations and improvements of the existing filters.

The work is included in the budget for the current year under the head of Loan Works, and pending the raising of the requisite sum, the cost can be met by advances from available balances to be adjusted finally against Loan Funds.

G. W. ROUGHTON.
BHALCHANDRA KRISHNA.
JAVERILAL U. YAJNIK.

*

No. 3976.

Resolved: "That the report of the sub-committee on the subject of the filtration of the Tulsi water be approved and adopted, and that

* Mr. S. Rebsch is absent from Bombay.

Note.—Mr. Carroll having left Bombay for England on the 5th instant, ceased to be a member of the sub-committee, but at a meeting held on the 18th ultimo, he expressed his doubts as to the advisability of attempting to provide other means of filtration than the one which is found to be so efficacious in England, namely, filtration through sand, and advocated the adoption of Mr. Acworth's proposals.

the same be forwarded to the Corporation as the report of the Standing Committee, and with the recommendation that sanction be given to the construction of filter-beds at the Malabar Hill Reservoir at a cost of Rs. 1,86,000, as against the Loan Works Budget provision of Rs. 2,00,000.

"That, pending the raising of the requisite sum, the cost be met by advances from available balances to be adjusted finally against Loan Funds.

"That copy of this report be also forwarded for the information of the Committee appointed under the terms of the Corporation's Resolution No. 2157 of 21st May last, to investigate and report on the question of the water supply."

Considered the following :—

BOMBAY, 27*th June* 1894.

1. The construction of storm-water drain in the Cruickshank Road.
2. Drainage of that portion of the Parel District which can be drained on the gravitation system.

REPORT OF THE SUB-COMMITTEE.

The sub-committee appointed by the Standing Committee on the 20th instant, as per margin, beg to report that, in consultation with the Commissioner, the Executive Engineer and the Drainage Engineer on Special Duty, they have carefully considered the plans, specifications, and estimates of these two works, and find, with regard to the first, that it has been designed so as to provide for the carrying off of storm-water equal to a fall of one inch per hour on an area of about 14 acres, which may be taken as sufficient for all ordinary purposes. It is intended that the drain shall start from the Fitzgerald lamp near the Money School, and pass along the Cruickshank Road, discharging into the surface drain in Hornby Road, completed last year.

That letter from the Commissioner to the Secretary, No. 2474, dated 1st May 1894, on the subject of constructing a storm-water drain in Cruickshank Road, and letter from ditto to ditto, No. 2473 of same date, forwarding plans and estimates of the cost of providing sewerage for part of Parel district be referred to the following sub-committee for enquiry and report :—
The Chairman, Mr. Rebsch, Mr. Cowasji Hormusji and Mr. K. M. Shroff.

The new drain will be 2,400 feet in length, and for the first 800 feet from its commencement will be 1'-6" × 1'-6" in dimension, increasing to 2' × 2' along the next 800 feet, and enlarging to 2' × 2'-3" in the remaining portion. The estimated cost

of the work, including manholes and water gullies, complete, is Rs. 27,073. Mr. Walton's estimate of the cost of a drain 6′ × 6′ on Cruickshank Road, advancing to 11′ × 11′ at the junction of Frere Road with Fort Street, with outlet into the harbour direct, was Rs. 3,10,000. But as a storm-water drain has been provided in Hornby Road, the Engineers before mentioned are of opinion that the smaller drain now proposed will answer all present practical requirements, and that all that it will be necessary to do, at any future day, if it should be found requisite to provide for an increase in the capacity of the drains, will be to construct another drain or to enlarge those that may be existing.

Regarding the second and more important subject referred to them, namely, the sewerage of that part of Parel sewerage district, which can be dealt with on the gravitation system, the sub-committee beg to point out that, as the Standing Committee are aware, this new work only provides for portions of the sewerage of the northern districts of Bombay, as the greater part of the outlying district, on account of levels, cannot be dealt with on the gravitation system, but will require local pumping of some sort. (It may be mentioned that where "gravitation system" is mentioned in this report, natural gravitation to the Warli is meant.)

The only portion of the area comprised within the Parel district, which has yet been sewered, is Parel village and the road running from Government House to Lal Bag on Parel Road. Even this important portion of the scheme is all but unused, on account of the work of the house-connections having been suspended pending the receipt of the report of the Committee of the Corporation appointed on 30th June 1892.

The area which it is now proposed to sewer on the gravitation system starts from a point at the western end of Sussex Road, thence running west of Parel Road, and on to the Chinchpokli Railway Station, and thence along the line of Arthur Road past the Gas Works, thence north-west across Currey Road to a point north of the National Mills, where it joins the boundary of the sectional district, thence proceeding east by north to a point to the westward of the new China Mills, on the new Sewri Road. From there the boundary runs back, southwards, to Kala Chauki Road, thence westward, to Chinchpokli Station, and still following the boundary of the sectional district, passes to the south of the Hongkong Mill, and by the north of Connaught Road and Sussex Road to the point first mentioned.

The shape of this district, it will be observed from the plan, is very irregular, as it had to be arrived at by considerations of level and verticality, and not of horizontal configuration.

This district can be sewered, the Drainage Engineer on special duty reports, on the simple gravitation system with gradients,

giving a velocity of at least 3 feet a second in the sewers when they run full or half full. It is intended that they shall be wholly of stoneware pipes of the requisite capacity.

Out of the total length of about 16,814 running feet, or say, 3¼ miles, 16,078 feet will be pipes of 9″ diameter and 736 feet of 12″ diameter, the last mentioned being laid where the pipes discharge into Parel Road sewer. The sewers in this district will discharge as follows :—Into (*a*) 9″ existing pipe sewer in Parel village main road ; (*b*) 9″ pipe sewer in Parel Government House Road ; (*c*) 9″ pipe sewer in Currey Road ; (*d*) 12″ pipe sewer at the southern end of Supari Bagh Road ; (*e*) 15″ pipe sewer at the junction of Arthur Road and Kala Chauki Road ; and (*f*) the 12″ pipe sewer at the junction of Parel Road and Sussex Road.

Kala Chauki Road pipe sewer forms part of this gravitation system, but it has not been included in the estimates now before the Standing Committee, as the work has already been estimated for and included in the Budget provision of Rs. 30,000 for miscellaneous extensions and improvements of drains at p. 77 of the Budget for 1893-94. The work included in the estimates before the sub-committee provides for the laying of pipe sewers and the construction of manholes, the provision of a metal flap and chain to every pipe entering a manhole, the constructions of 11 flush tanks and the erection of 28 metal vent-shafts.

The total estimate of the whole work amounts to Rs. 81,620, which, together with the sum of Rs. 27,073 for the Cruickshank Road storm-water drain, should, in the opinion of the sub-committee, be debited, as suggested by Mr. Acworth, to the sum of Rs. 2,86,181-13-6, being the balance of savings which have accrued on the grants for various Drainage Works already completed.

G. W. ROUGHTON.
S. REBSCH.
COWASJI HORMUSJI.
K. M. SHROFF.

No. 3977.

Resolved : "That the report of the sub-committee on the question of the construction of storm-water drain in Cruickshank Road and of the provision of sewerage for that part of Parel district, which can be dealt with on the gravitation system, and in which pipe sewers have not already been laid, be approved and adopted and forwarded to the Corporation as the report of the Standing Committee, with reference to the Corporation's Resolutions Nos. 2888 and 2891, dated 14th ultimo, and with the recommendation that sanction be given (1) to the construction

of the storm-water drain, at the estimated cost of Rs. 27,073, including 10 per cent. for contingencies. The cost to be debited to the sum of Rs. 2,86,181-13-6, the balance of savings which have accrued on the grants for various drainage works already completed; and (2) to the carrying out of the sewerage in question at the estimated cost of Rs. 81,620, including 15 per cent. for contingencies. The cost to be debited to the balance of savings as above."

No. 3978.

Resolved: "That memorandum No. 2804, dated 5th May 1894, from the Commissioner, and statements forwarded therewith regarding the agreements for set-backs of properties entered into with the owners of private properties, be further postponed."

The following statement* was laid on the table:—

Statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes, for the week ending 13th May 1894.

No. 3979.

Resolved: "That the following be referred to the Commissioner for favour of remarks:— Letter dated 10th instant, from Mr. Vali Peermahomed, protesting against the set-back of his house Nos. 49-53, Chukla Street."

Read letter to the Secretary, No. 8586, dated 10th instant, from the Commissioner, as under:—

SIR,—I have the honour to report that the Commissioner of Police having recently made certain additions to public conveyance stands, a revision of the Public Land Conveyance Fare Book was rendered necessary. The Commissioner of Police, who entrusted the work of revision of the book to Mr. Superintendent Grennan of the City Police, reports that that officer has spent much time and trouble over the book, and Government have accordingly sanctioned the payment of Rs. 100, as remuneration, to Mr. Grennan, I have, therefore, to request the sanction of the Standing Committee and the Corporation to the amount being paid out of receipts of Public Land Conveyance Licensing Fees.—I have, &c.,

H. A. ACWORTH, Commissioner.

* *See* Appendix B.

It was agreed that the consideration of this question be postponed till next week.

BOMBAY, 18*th July* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPT. W. P. WALSHE.

H. A. ACWORTH, ESQ., I.C.S., Commissioner; and the SECRETARY.

The minutes of the meeting held on the 11th instant, were signed.

No. 4329. The seal of the Corporation was affixed to deed of agreement with Mr. Dhunjeebhoy Merwanjee Jijeebhoy for lease, for a period of two years, from 15th July 1894, or from such date as the requisite alterations to the buildings are completed, of bungalow, with stabling and servants' quarters, in Nesbit Lane, for occupancy by the Fire Brigade staff, hitherto quartered at Byculla Police Office.

No. 4330. *Resolved*: "That, as applied for by the Commissioner in his memorandum No. 8912, dated 16th instant, and in accordance with Notification of the Government of India, No. 3257 (Account and Finance, Public Debt), dated 30th June 1894, sanction be given, with the consent of the parties interested, to the conversion of Government Promissory Notes of 1842-43 deposited by contractors and Municipal employés, from 4 per cent. into 3½ per cent., in cases of Nos. 1 to 9 and 11 to 26 as per list submitted by the Acting Chief Accountant with his memo. to the Commissioner, No. 1670, dated 16th instant.

"That sanction be also given to the discharge of the Government Promissory Notes in cases Nos. 10 and 27, as per list above, on the due date."

Considered letter to the Secretary, No. 8911, dated 16th instant, from the Commissioner, as under :—

SIR,—In their Resolution No. 6222 of 28th September 1893, the Corporation sanctioned an application being made to Government for sanction to the raising of a loan of 25¼ lakhs for works enumerated in the Resolution and in three instalments as under:—

13 Lakhs before 31st January 1894.
10 „ between 1st July and 31st December 1894.
2¼ „ between 1st July and 31st December 1895.

The usual formalities having been fulfilled, the Government of India sanctioned a loan of 23¼ lakhs only, refusing sanction to two lakhs of the proposed loan for reasons known to the Corporation, and which have been separately dealt with (*vide* Corporation Resolution No. 2150 of 21st May 1894).

2. 13 Lakhs of the loan were raised in anticipation of sanction in January last, and it has been contemplated to raise the balance, which will now amount to only 10¼ instead of 12¼ lakhs in instalments of 8 lakhs in 1894 and 2¼ lakhs in 1895. I am inclined, however, having regard to a variety of considerations affecting the money market, to advise that Government be asked to permit of the terms under which the loan was sanctioned to be so far modified as to allow of our raising the whole balance of 10¼ lakhs between 1st July and 31st December 1895, in other words, that the instalment proposed to be raised this year should be transferred to next year, the works for which the loan has been sanctioned, proceeding in the meantime, but being paid for by advances from loan and other balances. If the Standing Committee concur with me, I shall be obliged by their obtaining from the Corporation the necessary authority to enable me to address Government.—I have, &c.,

H. A. ACWORTH,
Commissioner.

Resolved : " That, as applied for by the Commissioner in his letter to the Secretary, No. 8911, dated 16th instant, the Corporation be recommended to authorize the Commissioner to address Government with a view to the terms on which the raising of the loan of Rs. 23,25,000 for drainage and other works being so far modified as to allow of the raising of the balance of Rs. 10,25,000 thereof, between 1st July and 31st December 1895, instead of Rs. 8 lakhs between 1st July and 31st December 1894, and Rs. 2¼ lakhs between 1st July and 31st December 1895.

No. 4331.

"That, pending the raising of the said balance of Rs. 10,25,000, the Corporation be recommended to sanction the expenditure, on account of the works included in the loan, being paid for by advances from Surplus Loan and other balances to be adjusted hereafter against the said Loan Fund."

Considered the following :—

30, ESPLANADE ROAD,

Bombay, 11*th July* 1894.

TO THE MUNICIPAL COMMISSIONER.

Re Claim for compensation by the SCOTTISH ORPHANAGE SOCIETY.

SIR,—We have the honour to forward herewith copy, case and opinion of Counsel (Mr. Inverarity) upon this and the Limitation question, and also as to the legal power of the Corporation to pay claims barred by Limitation.

It will be noticed that the practical effect of counsel's opinion is that section 527 does not apply to cases of compensation, and that the ordinary Limitation of 3 years applies. This is in distinct opposition to the opinion of the Advocate General, dated the 23rd day of April 1894 (a copy of which we sent to you with our letter of the 25th April 1894), and of the ruling of the Chief Justice Sir Michael Westropp and Mr. Justice Green in Sorabji Nusserwanji Dandas *vs.* the Justices of the Peace for the City of Bombay, and also of the 2nd Judge of the Small Cause Court in Suit No. 7888 of 1894, Sewji Hema *vs.* the Municipality, a copy of the Judgment in which case was sent to the Executive Engineer with our letter of the 12th May 1894.

We may mention that in discussing the opinion unofficially with counsel, he stated that the claim of the Scottish Orphanage Society was not one for "compensation" so as to bring it within the decision of Sorabji Nusserwanji Dundas *vs.* the Justices of the Peace, &c., but was one for damages for breach of contract to pay a certain agreed sum of money upon the performance of certain conditions by the Society which they had performed, and that, consequently, such breach of contract could not be said to be an "act done in pursuance or execution or intended execution of "the act or in respect of any alleged neglect or default in the "execution of the act" within the meaning of section 527 (1) of the Act.

With regard to counsel's opinion that the Corporation can legally pay debts due by them although barred, he unfortunately cites no authorities, merely stating that the Limitation Act is intended to be a defence against stale claims. That, no doubt, is

the case, and the 2nd Schedule to the Limitation Act specifies the periods when various claims are to be considered stale. In like manner, section 527 (1) (*b*) of the Municipal Act, specifies the time when claims under that section are to be considered stale, and we imagine that there is a very substantial reason for providing a special limitation in Municipal cases, partly, no doubt, owing to the necessity for providing each year in the budget for all liabilities, and partly to the difficulty that would be entailed if a Corporation like the Bombay Municipality, dealing with the innumerable matters that arise yearly, were liable to have claims made beyond the period provided. It is true that there is no law that requires a debtor to plead the statute, but the difficulty we have in accepting the opinion is that the Corporation are not in the position of ordinary debtors dealing with their own money with no one to account to for it. They are trustees for the public of the Municipal funds for particular purposes. If counsel is right, where are the Corporation to draw the line at 2 years or 5 years or 10 years. It may equally be an admitted debt at the end of 10 years, and, of course, Limitation does not extinguish the debt, it only bars the remedy.

The legal members of the Standing Committee will appreciate our difficulty in accepting an opinion upon such an important matter without any substantial authority being brought forward by counsel to support their opinion. As to whether or not section 527 applies in cases like that of the Scottish Orphanage, we would suggest that, if there is any claim pending in which the amount in question is over Rs. 1,000, the same should be disputed so that the opinion of the High Court, on revision from the Small Cause Court, may be obtained and thus settle the question for ever.

We return the papers.—We have, &c.,

CRAWFORD, BURDER & Co.

Re the SCOTTISH ORPHANAGE SOCIETY.

1. Whether upon the facts as above stated the claim of the Scottish Orphanage Society is or is not barred by limitation.

1. I am of opinion it is not barred. Sections 527 and 504, in my opinion, do not apply where there is an agreement as to sum to be paid. I am of opinion that where there is an agreement to pay and receive a sum as compensation the ordinary limitation of three years applies. Here the agreement was to pay when title was shown. That title was shown in April 1894. I am of opinion time runs from that date.

2. If not so barred, could the Society file a suit for the amount of the compensation under section 527 of the Act, and, if so, when would the "cause of action" within section 527 (1) (*b*) be deemed to have arisen?

2. I think they can sue independently of section 527 on the contract. The cause of action, in my opinion, arose in April 1894 when the condition was performed on which the promise to pay was made.

3. When a claim for compensation is barred by limitation have the Corporation any legal power under section 501 or under any other circumstances to pay such claim, and, if so, under what circumstances?

3. I am of opinion the Corporation can legally pay debts due by them although barred. The Limitation Act is intended to be defence against stale claims, but if the debt is an admitted one, there is no law which requires the debtor to plead the statute. I think section 501 would cover such a payment, but apart from that section, I think it is no breach of trust to pay a barred debt in a proper case out of Municipal funds.

4. Generally upon any point which may occur to counsel on the above facts.

July 6th, 1894.

J. D. INVERARITY.

No. 4332.

Resolved: "That, having regard to the opinion of Counsel, dated 6th instant, as to the payment of time-barred claims, the following be *recorded*:—Letter to the Secretary, No. 5989, dated 11th ultimo, from the Commissioner, requesting sanction, under section 501 of the Municipal Act, to the payment of compensation to the Scottish Orphanage Committee, for 155·77 square yards, or thereabout, of land, situate at Mahim Back Road, taken up for the improvement of road thereat, at the rate of Rs. 2 per yard. Also requesting sanction to the payment, to the said Committee, of Rs. 48, being the cost of 6 trees standing on the land so taken up.

"Letter to the Secretary, No. 8764, dated 12th instant, from the Commissioner, stating that Mr. Inverarity is of opinion that the claim of the Orphanage is not time-barred, and agrees with the Advocate-General as to the power of the Municipality to pay claims, even though technically time-barred."

"That the opinion of Counsel on the general question of time-barred claims be circulated to the Committee."

No. 4333. The consideration of letter to the Secretary, No. 8600, dated 10th instant, from the Commissioner, on the question of the taking up of land at Currey Road, the property of Mr. Uka Tillaje, for the site of the proposed market thereat, was postponed till next week, in order to enable the Commissioner to prepare and circulate the plans and estimates of the market.

No. 4334. *Resolved*: "That, as applied for by the Commissioner in his letter to the Secretary, No. 8849, dated 13th instant, sanction be given, under the terms of section 90 (1) of the Municipal Act, to the capitalization at a cost of Rs. 342-13-2, of the rent of 1,199 square yards, or thereabout, of land, situate at Grant Road, the property of Mr. Kharshedji Dhunjibhai Rana, at present held on lease; the land having been added to and forming part of road known as Dhunji Street. The cost of land and of drawing and executing the necessary deed thereof to be debited to the grant for street improvement."

No. 4335. *Resolved*: "That copy of the Corporation's Resolution No. 4083 of the 12th instant, as under, be forwarded to the Commissioner with reference to his letter No. 24219, dated 10th March 1894, and memorandum No. 6777, dated 21st June 1894, and to the Committee's Resolution No. 13527, dated 14th March last.

No. 4083. "That, with reference to the Standing Committee's Resolution No. 13527, dated 13th March last, the Corporation's Resolution No. 506, dated 12th April, and Counsel's opinion, forwarded with the Commissioner's memorandum to the Secretary, No. 6777, dated 21st June, the papers be referred to the Standing Committee with the expression of the Corporation's opinion that legal action against the contractors does not appear to be desirable."

No. 4336. *Resolved*: "That the following be *recorded*:— Letter to the Secretary, No. 8981, dated 16th instant, from the Commissioner, re-

porting that he has sold to Gunnooji Bhikaji the right of cutting grass from the Municipal garden on the Flats, from the 26th June 1894 to 31st March 1895, for Rs. 73."*

No. 4337.

Resolved: "That, as applied for by the Commissioner in his letter to the Secretary, No. 8857, dated 13th instant, sanction be given, under the terms of section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. Garlick and Co., for the supply of 800 casks cement, whereby the period of the contract may be extended from 21st March to 5th June last."

The consideration of letter to the Secretary, No. 8689, dated 11th instant, from the Commissioner, asking sanction to the acceptance of tender of Mr. Sayaji Naguji for filling in the compound of the Small-pox Hospital at Arthur Road and constructing surface drains thereat was postponed till next week, to enable the Commissioner to apply for sanction to the renewal of the grant provided for the work of filling in, as the grant has lapsed.

Read letter to the Secretary, No. 8907, dated 16th instant, from the Commissioner, as under :—

SIR,—I have the honour to ask for an extra grant of Rs. 2,000 from Surplus Cash Balance for repairs to machinery at Love Grove. The pump rods of Engine No. 1 at Love Grove are now so badly worn on account of silt passing through the pumps, that it is necessary to take their renewal in hand at once, and orders have been given to make new ones at the workshops. Before this work can be completed, the remaining 6 rods of the other pumps will require renewal, and after that the repair of the rams will require consideration. The cost of renewing the whole of the rods alone will be Rs. 1,600. I shall forward a bill for the amount to the makers, Messrs. Simpson & Co., but have my doubts whether the charge is sustainable against them. The question of intercepting the silt before it reaches the pumps has been by no means lost sight of, and I have had reports from and discussions with the Executive Engineer, the Special Drainage Engineer and the Drainage Engineer, but all these officers differ to such an extent as to the remedy to be applied that I referred the question to Major Tulloch, R.E., who has a scheme under preparation which, he informs me, will fully meet

* The right has been sold for the first time this year.

the difficulty. He advised me last mail that we might expect it in two or three weeks.

Estimated surplus in excess of what has already been appropriated in the budget for 1894-95		Rs. 3,50,000	0 0
Out of this sum expenditure, excluding temporary advances to be adjusted hereafter, has been sanctioned...	Rs. 1,03,513-12-6		
Expenditure recommended for sanction.....	„ 8,364-0-0		
		1,11,877	12 6
	Available Rs.	2,38,122	3 6

I have, &c.,
H. A. ACWORTH, Commissioner.

No. 4339. *Resolved*: "That, as applied for by the Commissioner in his letter to the Secretary, No. 8907, dated 16th instant, the Corporation be recommended to sanction the grant of Rs. 2,000 from Surplus Cash balance to meet the cost of repairing the pump rods of the engines at Love Grove Pumping Station, the rods having been injured by the passage of silt through the pumps."

Considered letter to the Secretary, No. 8859, dated 13th instant, from the Commissioner, as under :—

SIR,—I have the honour to say that Government desire certain additions, as specified in the margin, to be made to the bungalow occupied by the Police Inspector at Mahim.

1 Cook-room.
1 Servant's room.
1 Privy.

The bungalow belongs to the Municipality, and the additions are estimated by Government to cost Rs. 1,102, and they enquire whether the Municipality would be prepared to make the additions and charge an enhanced rent sufficient to pay for the extra capital spent on the construction. It is optional with the Municipality to undertake capital expenditure of this kind; but as in this case the building belongs to them, and their expenditure will be covered by the extra rent charged, it seems advisable to incur it and to charge 5 per cent. on the amount expended, the work to be done by the Municipal Engineers and their estimate for it, if it exceeds that of Government, to be forwarded to Government for consideration before anything is done.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved: "That letter to the Secretary, No. 8859, dated 13th instant, from the Commissioner, be forwarded to the Corporation with the recommendation that, as requested by Government, the Commissioner be authorized to make, at a cost of Rs. 1,102, the additions of 1 cook-room, 1 servant's room and 1 privy to the bungalow, the property of the Municipality at Mahim, occupied by the Police Inspector, an enhanced rent, equal to 5 per cent., on the outlay to be incurred by these works, being levied. That, if the Municipal Engineer's estimate exceeds that of Government, the same be forwarded to Government, for consideration, before the work is proceeded with."

No. 4340.

The consideration of the question of the writing off of Rs. 652-7-2, in respect of irrecoverable bills for Municipal rates and taxes, was postponed till next week.

At the request of the Commissioner the following item was struck off the agenda, as he intends to pay the charge from his Discretional Contingencies :—

Letter to the Secretary, No. 8586, dated 10th instant, from the Commissioner, requesting the Committee to recommend the Corporation to sanction the payment to Mr. E. H. Grennan, Superintendent of Police, of Rs. 100, as remuneration to him for revising the Public Land Conveyance Fares Book. The charge to be met from the receipts of Public Land Conveyance Licensing Fees.

No. 4341.

Considered memorandum to the Secretary, No. 8740, dated 12th instant, from the Commissioner, as under :—

In reply to Standing Committee Resolution No. 3682 of 4th instant, the Commissioner has the honour to say that the petitioner's grievance is two-fold, first, that the Commissioner does not compel the owner of a private market to lease to him a butcher's stall on his own (the petitioner's) terms, and, secondly, that, in default of this, the Commissioner does not permit him to set up a butcher's shop in the vicinity of the market.

As regards the first point, it is obvious that the Commissioner has no power of interference. The question involved is one of private contract.

As regards the second, it is considered sound policy to discourage as much as possible the setting up of butchers' shops outside markets, not in order to give a monopoly to the owners of private markets but to prevent the scattering through the city of a trade which ought, for a variety of reasons, to be kept as inconspicuous and as much concentrated as possible. Private markets in this view of the case and where there is no public market serve an useful end, an end which would be rendered abortive if a license for a shop were granted in every case where the owner and would-be tenant of a private market were unable to agree upon the rent.

The Commissioner has laid before the Standing Committee proposals for a public market in this part of the island, and if or when it is erected any monopoly which a private market may possess will disappear.

H. A. ACWORTH, Commissioner.

No. 4342. *Resolved*: "That memorandum to the Secretary, No. 8740, dated 12th instant, from the Commissioner, be forwarded to the Corporation, with reference to petition to the President, dated 4th idem, from Mr. Khodabux Allum, and with the recommendation that the petitioner be informed that the Commissioner has no power to compel the owner of the private market at Dadar to let a stall therein to petitioner, and that it is not considered desirable to allow a butcher's stall to be opened in the vicinity of the market."

Considered the following papers which had been circulated to members in accordance with the Committee's Resolution No. 3157, dated 20th ultimo :—

MEMORANDUM No. 8847 OF 1893-94.

TO THE MUNICIPAL COMMISSIONER,

Through the EXECUTIVE ENGINEER.

SIR,—I have the honour, in continuation of demi-official intimations, to report that a 48" pipe on the Tansa line at 47 m. 3,888 feet, just north of the katchra reclaimed land at Kurla, failed about 4-30 A.M., on Monday, the 12th instant. This repair was completed and the water turned on on Tuesday, the 13th, at from 9 A.M. to 2 P.M. Another pipe failed about 1,000 feet on the Tansa side of this pipe on Wednesday night (14th) about 11. The repairs were completed about 10 P.M. on Thursday, 15th,

and the supply of water was resumed during the night. At about 4 P.M. on Friday, the 16th, a leak appeared in Arthur Road, near the Photometer house, Lal Bag. This will probably prove to be a joint leak.

2. As might be expected these stoppages have caused much inconvenience and the Service Reservoirs have been almost emptied. Provided no further accidents occur, the supply will probably be resumed on Monday (19th).

3. The first failure was of a pipe which was resting partly on the wooden platform over a culvert and partly on the earthen embankment adjoining, and the cause of fracture must be, I think, connected with this circumstance, although it is not one which always causes fracture. This inequality of bedding can scarcely be avoided, and the precaution has been taken of lowering the masonry and wooden platforms as the earthen bank has apparently sunk adjoining culverts, but it is, of course, impossible to determine how much strain is set up in any particular case.

4. There were no unfavourable circumstances connected with the bedding of the pipe which failed on Wednesday night. The most probable cause is the presence of free air operating on a pipe or joint unusually strained or weak. The failure at Arthur Road cannot yet be reported on.

5. The air-escapes sanctioned for the Supari Bag Road section have recently been received and arrangements are being made for fixing them as soon as practicable, and two or three of them will be fixed between Kurla and Ghatkoper.

6. There was full pressure practically at the time of each failure.—I have, &c.,

S. TOMLINSON, M. INST. C. E.,
Water Engineer.

No. 17657 OF 1893-94.

BOMBAY, *20th March* 1894.

To THE MUNICIPAL COMMISSIONER.

Forwarded to the Municipal Commissioner.

M. C. MURZBAN, Executive Engineer.

No. 27987 OF *28th March* 1894.

Forwarded to the Standing Committee.

H. A. ACWORTH, Commissioner.

No. 8884 OF 1893-94.

BOMBAY, *20th March* 1894.

To THE MUNICIPAL COMMISSIONER,
Through the EXECUTIVE ENGINEER.

SIR,—I have the honour, in continuation of this office No. $\frac{8817}{19-3-94}$, to report that the leak at Arthur Road on the 48" main proved as anticipated, to be due to the lead being blown out of a collar joint. Temporary repairs were effected without stopping the supply except for a short time, and when the storage in the City has been restored, permanent repairs will be effected. It will be necessary to remove the collar and adjust the space for lead which is now unequal.

2. At about 4 P.M. on Sunday, the 18th, the 32" Vehar main failed at Kurla between the sluice houses near the site of the new station. The condition of this main has been so frequently reported on, that I need not enter into details :—considering the thinness to which the pipes have been reduced by chemical action, the wonder is that bursts are not more frequent.

3. The repairs were completed about midnight on the 19th and water was again received into Bhandarwada Reservoir about 4-30 A.M. to-day (20th instant).

4. This series of bursts has caused great inconvenience in the city, and the storage was yesterday well-nigh exhausted. It will be restored as soon as practicable; but as practically we have only one day's full supply in reserve when working as usual it is, I think, evident that the position is not as satisfactory as it ought to be.—I have, &c.,

S. TOMLINSON.

No. 17689 OF *20th March* 1894.

Forwarded to the Municipal Commissioner.

M. C. MURZBAN.

No. 27992 OF 1893-94.

28th March 1894.

Forwarded to the Standing Committee for information, in continuation of this office No. 27987, dated this day.

H. A. ACWORTH, Commissioner.

No. 144 OF 1894-95.

BOMBAY, *4th April* 1894.

To THE MUNICIPAL COMMISSIONER.

The undersigned has the honour to state that, at the meeting of the Standing Committee held this day, it was—

Resolved: That memoranda Nos. 27987 and 27992, dated 28th ultimo, from the Commissioner, be referred back to him for the favour of enquiring whether it was scientifically correct to lay down mains on the Bombay end

No. 114.

of the Tansa pipe which are $\frac{1}{8}$ of an inch thinner than those used on other portions of the Tansa line, and, if not, why such mains of inferior thickness have been laid.

H. W. BARROW, Municipal Secretary.

No. 868 OF 11*th April* 1894.

Forwarded to the Water Engineer for favour of report.

H. A. ACWORTH, Commissioner.

No. $\frac{W}{1188}$ OF 1894-95.

To H. A. ACWORTH, Esq., C.S.,

Municipal Commissioner, through the Executive Engineer.

BOMBAY, 11*th May* 1894.

SIR,—I have the honour, in returning your No. 868 of the 11th ultimo, to report on the Resolution (No. 114) of the Standing Committee, "enquiring whether it was scientifically correct to "lay down mains on the Bombay end of the Tansa pipe, which "are one-eighth of an inch thinner than those used on other "portions of the Tansa line, and, if not, why such mains of inferior thickness have been laid?"

2. There are 8 pipe lines on the Tansa Duct, the material particulars of which are:—

Name of siphon or pipe line.	Length in feet.	Greatest possible hydrostatic pressure at lowest point of siphon head.	Thickness of metal of 48" pipes.
		Feet.	Inches.
Nivada	3524	107·8	1⅛
Mandola	8022	210·0	1⅜
Khaling	7212	174·4	1⅛
Agra Road	4526	169·1	1⅜
Pogaon	6103	187·5	1⅛
Bassein Creek	60515	257·8	1⅜
Pawai	4673	85·0	1⅛
Ghatkoper to Bombay ...	49130	229·5	1⅛

3. Practical considerations connected with safety in transporting pipes by sea and land overside theoretical calculations as to required thickness for low pressures and the minimum thickness is fixed accordingly. No question is raised in the refer-

once as to the minimum thickness, but I may add that I do not think it would have been prudent to order pipes of less than $1\frac{1}{8}$ inch in thickness. This is the thickness, it will be noted, on 6 out of 8 siphons. Only on two siphons, Mandola and Bassein Creeks are thicker pipes used, and these are $1\frac{3}{8}$ inch thick, or one quarter of an inch thicker than on the majority of the siphons.

4. So far as I know there was no reason against the laying of the thicker pipes everywhere except increased cost.

A pipe $1\frac{1}{8}$ inch thick cost Rs. 21·85 per foot.
A pipe $1\frac{3}{8}$ „ „ „ „ 26·45 „

The difference in cost on the length between Ghatkoper and Bombay would therefore have been 49,130 × 4·6—say, Rs. 2,26,000 without allowing anything extra for carting extra weight. Supposing for a moment that it was not scientifically correct to lay the thinner section pipes between Ghatkoper and Bombay, it is the fact that $2\frac{1}{4}$ lakhs at least were saved by doing so, and Mr. Clerke is to be credited in this, as in every other portion of the Tansa works, with a constant regard for the finances of the Corporation, a regard which has resulted in the completion of a vast work unrivalled, so far as I know, from the standpoint of economy, combined with efficiency.

5. It was, however, scientifically correct for Mr. Clerke to trust pipes $1\frac{1}{8}$" thick to do the work between Ghatkoper and Bombay. He specified that the pipes should be cast from metal having a tensile strength equal to 18,000 lbs. per square inch. He further specified that each pipe should be tested at the Foundry to a pressure equal to 450′ head of water and in Bombay to 230 feet. There is no doubt these tests were carried out. Major Tulloch's reports and letters are conclusive as to the tests at the Foundry and the office records prove the testing in Bombay. Regarded practically therefore, each pipe has been once tested to double the maximum hydrostatic head : once to the hydrostatic head : and has been since subjected to varying pressures up to the hydrostatic head. As 4,082 pipes out of 4,094 have not failed, or as only 1 in 341 has failed, we might be satisfied with this demonstration of the fitness of the pipes for their work.

6. Theoretically the adoption of pipes $1\frac{1}{8}$" thick is equally justifiable. The thickness required varies inversely as the strength and reliability of the material and directly as the diameter and pressure or by formula.

$$2\,t\,s = dp$$
$$t = \frac{d \times p}{2\,s} = \frac{r\,p}{s}$$

Where t=thickness of metal.
d=diameter of pipe, and r, its radius.
p=internal pressure and
s=ultimate tenacity of the material.

Now we have seen that S was stipulated to be equal to 18,000 lbs. per square inch in this case. The radius of the pipe is 24 inches, the thickness $1\frac{1}{8}$ inch, therefore the theoretical bursting pressure is

$$P=\frac{S\times T}{R}\quad\frac{18,000\times 1{\cdot}125}{24}=844 \text{ lbs.}=1944 \text{ feet.}$$

The maximum static head being only 229 feet, there is a factor of safety of $8\frac{1}{2}$ times. With a perfect material perfectly manufactured, no factor of safety would be called for; these conditions do not, however, obtain, and hence factors of safety or margin for imperfect workmanship and imperfect material must be provided in actual construction. The character of cast iron is such as to demand a large "factor of safety." Six times is the usual allowance for cast iron; here the factor is eight and a half; and, therefore, I say that it was scientifically correct to lay down pipes $1\frac{1}{8}$" thick. The pipes which have failed show that from some such causes as unusual imperfections of material: initial strains set upon cooling: unusual and improper bedding, even eight and a half times was not a sufficient factor of safety for them, although it has up to the present proved so for 997 out of 1000.

7. Having thus shown that Mr. Clerke was scientifically correct and financially justified by the event, up to the present, at all events, I can only add that 48" pipes for this pressure have usually been laid thicker than $1\frac{1}{8}$", and the Corporation are to be congratulated upon the great money saving which has resulted in the departure on the Tansa works from past practice in this respect. At the same time the comparatively frequent bursts are extremely inconvenient to consumers and the Water Department, shutting off, as they do, without a moment's warning, two-thirds of the whole supply to the city, and on the whole it is perhaps matter for regret that the pipes from Ghatkoper to Bombay were not of the heavier section, for memory of the money saved will be short, and the saving will be forgotten when the stoppages of supply occur.—I have, &c.,

S. TOMLINSON.

MEMORANDUM No. 5418 OF 1894-95.

4th June 1894.

The Water Engineer is requested to expedite his reply to this office No. 868 of 11th April 1894, *re* recent bursts of water main and return the papers attached hereto.

H. HOLMES, Acting Assistant to Commissioner.

No. $\frac{W}{1932}$ OF 1894-95.

BOMBAY, *9th June* 1894.

To THE MUNICIPAL COMMISSIONER.

SIR,—With reference to your reminder No. 5418 of the 4th instant, I have the honour to state that the report called for under your No. 868, of the 11th April, was submitted, through the Executive Engineer, on the 11th May, under this Office No. $\frac{W}{1188}$. The Executive Engineer has been investigating the matter and the report will probably be submitted soon.—I have, &c.,

S. TOMLINSON.

No. 5965 OF 11*th June* 1894.

Forwarded to the Executive Engineer for favour of report.

H. HOLMES, Acting Assistant to Commissioner.

No. 5557 OF 1894-95.

18th June 1894.

To THE COMMISSIONER.

2. As explained by the Water Engineer, it was scientifically correct to lay down mains on the Bombay end of the Tansa pipe $1\frac{1}{8}''$ thick.

3. According to Beardmore's Tables the safe head of water for cast iron pipes 48″ in diameter is 280 feet when the thickness of the pipe is $1\frac{1}{8}''$ thick, 250 feet when the thickness is 1″, and 220 feet when the thickness is $\frac{7}{8}''$ (mean of $1'' \times \frac{3}{4}''$), whilst as stated by the Water Engineer the greatest possible hydrostatic pressure at the lowest point of the main at the Bombay end of the Tansa pipe is equivalent to a head of only 229·5 feet.

4. It will be noticed from the 2nd para. of the Water Engineer's report that in the main at Mandola on which the greatest possible hydrostatic pressure is 210 feet, the thickness of the pipe is $1\frac{3}{8}''$. Even at this place a pipe $1\frac{1}{8}''$ thick would have sufficed, but extra strength has probably been given to avoid possible accidents at a place where difficulties in carrying out repairs are great on account of inaccessibility of site and distance from Bombay.

M. C. MURZBAN.

MEMORANDUM No. 6532 OF 1894-95.

BOMBAY, *19th June* 1894.

Forwarded to the Standing Committee with reference to their Resolution No. 114, dated 4th April 1894.

H. A ACWORTH, Commissioner.

Resolved: "That the following be *recorded*:—Memo-
No. 4343. randa Nos. 27987 and 27992, dated 28th March 1894, from the Commissioner, reporting the bursts of water mains, and Memorandum No. 6532, dated 19th ultimo, from ditto, stating, with reference to the Standing Committee's Resolution No. 114, dated 4th April 1894, that it was scientifically correct to lay down mains of $1\frac{1}{8}$" thick on the Bombay end of the Tansa pipe."

The consideration of Memorandum No. 2804, dated 5th May 1894, from the Commissioner, and statements forwarded therewith regarding the agreements for setbacks of properties entered into with the owners of private properties, was postponed till next week.

The following was transferred to the list of outstanding business:—Memorandum to the Secretary, No. 6643, dated 20th ultimo, from the Commissioner, forwarding Report on the prevention of waste of water, asked for by the Standing Committee in their Resolution No. 7336, dated 1st November 1893.

Resolved: "That the following be *recorded*:—Memo-
No. 4344. randum to the Secretary, No. 8605, dated 10th instant, from the Commissioner, forwarding analyses, by the Health Officer, of the Vehar, Tulsi and Tansa waters for the current month, as under:—

Sample of unfiltered Tulsi water taken from the inlet well of the Malabar Hill Reservoir, on the 2nd July 1894.

	Parts per million.
Free Ammonia	·03
Albuminoid Ammonia	·22

Sample of filtered Tulsi water taken from syphon well (No. 1 Filter) of the Malabar Hill Reservoir, on the 2nd July 1894.

	Parts per million.
Free Ammonia	·03
Albuminoid Ammonia	·10

Sample of unfiltered Vehar water taken from the inlet channel of the Bhandarwada Reservoir, on the 2nd July 1894.

	Parts per million.
Free Ammonia	·005
Albuminoid Ammonia	·10

Sample of filtered Vehar water taken from filter water channel of the Bhandarwada Reservoir, on the 2nd July 1894.

	Parts per million.
Free Ammonia	·02
Albuminoid Ammonia	·09

Sample of Tansa water drawn from hydrant on the 27" Main in Arthur Road, on the 7th July 1894.

	Parts per million.
Free Ammonia	·03
Albuminoid Ammonia	·09

It was agreed on the motion of A. G. Viegas, Esq., seconded by Kaikhosro N. Kabraji, Esq.—

"That the Commissioner be asked to request the Health Officer for an explanation as to the discrepancies between analyses of filtered and unfiltered water."

The following return was read and *recorded* :—

Return of fires at Kalighat Street, Frere Road, and Huzria Street, forwarded with Commissioner's Memorandum No. 2926, dated the 7th May 1894.*

The following statement † was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes, for the week ending 15th July 1894.

It was resolved that the current list of outstanding business be brought up for discussion at the next meeting.

BOMBAY, *25th July* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, Esq., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., O.C.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPT. W. P. WALSHE.

H. A. ACWORTH, ESQ., I.C.S., Commissioner; and the SECRETARY.

The minutes of the Meeting held on the 18th instant, were signed.

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* *See* Appendix C. † *See* Appendix B.

Resolved: "That sanction be given to the cutting off of water connections as per lists accompanying the Commissioner's memoranda Nos. 9154 and 9603, dated 18th and 24th instant."

No. 4414.

Considered the following :—

No. 2663.

GENERAL DEPARTMENT,

BOMBAY CASTLE, 18*th July* 1894.

Letter from H. A. Acworth, Esq., I.C.S., Municipal Commissioner for the City of Bombay, No. 8110, dated 5th July 1894, requesting that he may be granted privilege leave for 2 months and 30 days from 18th August 1894; forwarding a copy of the Resolution of the Standing Committee assenting to the leave; and appending the usual declaration.

Memorandum from the Accountant General, No. G.A.-10275, dated 11th July 1894 :—

"Under Article 291 of the Civil Service Regulations, privilege leave for 2 months and 30 days will be admissible to Mr. H. A. Acworth from 18th August 1894, provided he continues uninterruptedly on duty till then."

RESOLUTION.—The leave applied for is granted and should be notified.

2. Copy of the Accountant General's memorandum should be forwarded to Mr. Acworth for information and guidance.

W. L. HARVEY,
Under-Secretary to Government.

Resolved: "That Government Resolution No. 2663, General Department, dated 18th instant, be *recorded*."

No. 4415.

Resolved: "That, as applied for by the Commissioner in his letter to the Secretary, No. 9157, dated 18th instant, sanction be given to the acceptance by him of the tender of Messrs. Pestanji Edalji Maistry and Son, the lowest of 3 tenders received, for constructing a new cemetery office and chawl for grave diggers at Haines Road, at a cost of Rs. 10,730-4-10, *plus* Rs. 1,182, for Establishment and Contingencies; total Rs. 11,912-4-10, to be met from the grant, Rs. 13,433, provided in the Budget for the current year."

No. 4416.

No. 4417. *Resolved*: "That, as applied for by the Commissioner in his letter to the Secretary, No. 9232, dated 19th instant, sanction be given to the acceptance by him of the tender of Messrs. Ratanji Bejanji and Co., the lowest of 7 tenders received, for paving the compound of the Bori Bundar Stables with set-stones, at rates aggregating Rs. 9,321-1-10, *plus* Rs. 1,222 for contingencies and establishment; total Rs. 10,543-1-10, to be debited to the grant, Rs. 13,500, provided in the Budget for the current year."

No. 4418. *Resolved*: "That, as applied for by the Commissioner in his letter to the Secretary, No. 9165, dated 18th instant, sanction be given, under the terms of section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. Spencer and Co., for paving and V-draining the van-siding behind the Bandora Slaughter Houses, whereby the work of making drainage connections and carrying out other works in connection with the van-siding shall be entrusted to them, at a cost of Rs. 323; and the period of the contract extended from 4th July to 1st August 1894. The cost to be met from savings in the grant, Rs. 9,830, sanctioned for the work."

No. 4419. *Resolved*: "That, as applied for by the Commissioner in his letter to the Secretary, No. 8689, dated 11th instant, sanction be given to the acceptance of the tender of Mr. Sayaji Naguji, for filling in the compound of the small-pox hospital at Arthur Road, and constructing surface drains thereat, at a cost of Rs. 5,990·190, to be debited to the grant, Rs. 6,631, provided for the work.

"That, as applied for by the Commissioner in his letter to the Secretary, No. 9279, dated 20th instant, sanction be also given, under section 132 of the Municipal Act, to the renewal of the lapsed grant of Rs. 6,631 for this work."

No. 4420. *Resolved*: "That the following be *recorded*:—Letter to the Secretary, No. 9479, dated 23rd instant, from the Commissioner, reporting that he has sanctioned the purchase from Messrs. Tata and Sons of 100 tons Japanese coal, at Rs. 15-8-0 per

ton, delivered at Love Grove Pumping Station, *plus* ½ per cent. for office terms asked for by the contractors. The cost, Rs. 1,557-12-0, to be debited to the grant for the purchase of coal for the station."

No. 4421. *Resolved*: "That the following be *recorded*:—Letter to the Secretary, No. 9220, dated 19th instant, from the Commissioner, reporting that he has sold to Meraman Shivdas, the right of cutting grass from Municipal ground (area about 6,877 square yards), lately purchased from Sir Dinsha Maneckji Petit, for Agripada roads, from 1st July 1894 to 31st March 1895, for Rs. 150."*

No. 4422. *Resolved*: "That the following be *recorded*:—Letter to the Secretary, No. 9060, dated 17th instant, from the Commissioner, reporting that he has sanctioned the purchase, from Messrs. Richardson and Cruddas, of a pipe and bolt-screwing machine, for the Municipal Workshops, at a cost of £37-10-0, to be met from the grant, Rs. 950, for the purpose, sanctioned by the Corporation in their resolution No. 1857, dated 14th May 1894."

No. 4423. *Resolved*: "That the following be *recorded*:—Letter to the Secretary, No. 9056, dated 17th instant, from the Commissioner, reporting that he has sanctioned the purchase, from Mr. Benjamin C. Smith, of New York, of one French's portable pipe cutting machine for the Water Works Department, at a cost of £30-10-0, including freight. The cost to be met from the grant for materials, Water Works, for the current year."

The consideration of letter No. 9435, dated 21st instant, from the Commissioner, asking sanction to an additional grant of Rs. 79,219 for the Colaba Sewerage Works, consequent on the fall in exchange on England since the contracts were entered into for the supply of machinery and materials for the works, was postponed till next week.

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* The right has been sold for the first time this year.

Proposed by Cowasji Hormasji, Esq., seconded by S. Rebsch, Esq.—

No. 4424. "That a sub-committee consisting of Capt. W. P. Walshe, the Hon'ble Mr. Fazalbhoy Visram, and Mr. K. M. Shroff, be appointed to enquire into and report as to whether a suitable plot can be purchased at a cheaper rate for the proposed market at Currey Road than the rate mentioned in the Commissioner's letter to the Secretary, No. 8600, dated 10th instant."

Carried.

No. 4425. *Resolved*: "That, as applied for by the Commissioner in his letter to the Secretary, No. 8015, dated 4th instant, sanction be given, under the terms of Section 216 of the Municipal Act, to the writing off of Rs. 652-7-2, being the amount of irrecoverable bills in respect of property, wheel, water and halalkhor taxes, &c., as per list submitted therewith."

Considered the following:—

No. 1716 OF 1894-95.

BOMBAY, 19*th July* 1894.

TO THE MUNICIPAL COMMISSIONER.

SIR,—I have the honour to forward, for transmission to the Standing Committee, a return of Receipts and Disbursements of the Bombay Municipality for the quarter ending 30th June 1894, as compared with the corresponding quarter for the previous year, as required by the then Town Council's Resolution No. 465 of 1st June 1887, with a list of additional grants amounting to Rs. 63,054-2-0 sanctioned by the Corporation during the quarter.

2. I have already reported to you in my No. 480, dated the 1st May 1894, the approximate state of Surplus Cash Balance, the exact amount of which will be reported to you as soon as the accounts of the past year are finally closed.—I have, &c.,

W. PEARSON, Acting Chief Accountant.

ACCOUNT OF THE BOMBAY MUNICIPALITY FOR
contrasted with that for the

	Budget Estimate.	Quarter ending 24th June 1893.	Quarter ending 30th June 1894.
Receipts.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Opening Balance	19,50,000 0 0	2,12,572 1 4	3,17,285 10 9
General Tax	18,26,000 0 0	5,49,508 11 11	6,01,308 15 9
Water Tax (including other Miscellaneous W. W. Revenue)	13,00,000 0 0	2,78,350 1 8	3,24,317 13 1
Wheel Tax and Tolls	3,45,850 0 0	61,582 3 0	66,131 9 5
Halalcore Tax	6,00,000 0 0	1,75,601 12 9	2,25,958 10 3
Town Duties	7,74,000 0 0	2,34,056 4 10	1,81,601 15 9
Licenses	80,900 0 0	22,270 7 0	30,141 5 0
Liquor Licenses, Instalment paid by Government in lieu of, under B. Act V. of 1878.	1,43,750 0 0	1,43,750 0 0	1,43,750 0 0
Tobacco Duty (under Act IV. of 1857)	1,87,000 0 0	52,975 0 0	57,110 0 0
Market Receipts	3,65,600 0 0	86,081 7 1	1,07,184 9 10
Miscellaneous Fees	50,000 0 0	10,182 12 4	10,562 5 11
„ Fines and Penalties	8,000 0 0	3,383 0 7	3,247 9 1
„ Receipts	1,25,000 0 0	23,123 15 10	27,114 10 8
„ Savings	3,000 0 0	.....	.....
Sale proceeds of unserviceable stores sold by public auction	.....	.....	171 15 3
Public Gardens	7,000 0 0	3,785 11 6	1,507 15 3
Contribution from Municipal Servants towards Pensions, &c., Fund	15,800 0 0	3,911 13 1	4,003 5 9
Tramway Rent	38,000 0 0	18,910 3 8	18,980 7 11
Interest and Profit on Investments of Surplus Loan and other Balances	2,04,600 0 0	63,780 9 3	63,202 13 0
Premia on the 42 Lakhs 4 per cent. Loan for repayment of the Government Consolidated Loan	.....	279 6 0	.....
	60,74,500 0 0	17,32,133 8 6	18,69,736 1 11
Debt	.....	16,500 0 0	.....
Workshop Recoveries	.....	2 13 10	2,082 5 9
Advances	.....	12,185 10 9	37,031 12 10
Bank of Bombay Loan and other Deposit Accounts	.....	92,124 11 9	1,60,947 6 8
Deposits	.....	2,42,209 8 4	1,01,059 5 0
Rupees	60,74,500 0 0	20,95,156 5 3	21,70,857 0 2
Total Rupees	80,24,500 0 0	23,07,728 6 6	24,88,142 10 11

THE QUARTER ENDING 30TH JUNE 1894, as Quarter ending 24th June 1893.

	Budget Estimate.	Quarter ending 24th June 1893.	Quarter ending 30th June 1894.
Disbursements.	Rs. a. p.	Rs. a. p.	Rs. a. p.
General Superintendence	2,04,192 0 0	46,139 1 8	49,290 2 7
Assessment and Collection Department	2,55,322 0 0	51,945 7 4	56,367 3 10
Fire Brigade	1,15,435 0 0	19,317 13 4	21,245 2 2
Public Gardens	57,994 0 0	8,618 0 10	15,615 13 3
Public Works (Engineer's Dept.) — General Supervision Establishment	40,326 0 0	8,990 8 1	9,113 11 7
Drainage	2,03,147 0 0	68,999 2 5	52,558 10 5
Water Works	2,28,968 0 0	40,286 15 3	40,951 4 8
Streets and Buildings Inspection and Supervision Establishment	86,677 0 0	20,129 15 10	21,323 4 7
Public Lighting	3,22,731 0 0	46,899 6 0	71,364 11 5
Road Watering	82,100 0 0	12,129 1 5	15,700 13 5
Road Repairs and Maintenance	3,50,910 0 0	59,919 3 0	77,620 0 11
Street Improvements	1,02,500 0 0	18,855 1 1	42,874 11 10
Cleaning, Lighting and Repairing Port Trust Wharves	33,842 0 0	.....	.....
Health Department	13,31,159 0 0	2,51,803 11 4	2,83,746 7 1
Police Charges	4,00,000 0 0	90,836 4 0	93,063 0 0
Education	89,435 0 0	29,110 14 11	28,266 14 9
Hospitals	57,000 0 0	13,274 9 0	13,159 4 6
Miscellaneous	67,326 0 0	15,685 6 1	16,167 0 10
New Works	96,293 0 0	35,266 9 0	42,078 4 3
Debt (including Sinking Fund deposited with the Bank of Bombay)	21,26,551 0 0	4,30,462 11 5	4,22,238 11 2
	62,57,211 0 0	12,68,669 14 0	13,72,745 5 9
Loan Works Accounts	.....	1,82,851 11 8	2,72,797 14 2
Workshops	.....	9,325 13 1	18,930 9 8
Advances	.....	36,611 11 10	70,312 3 8
Bank of Bombay Loan and other Deposit Accounts	.....	86,135 6 0	79,389 2 0
Deposits	.....	1,18,947 12 5	1,81,712 14 8
Rupees ...	62,57,211 0 0	17,02,545 5 0	19,95,883 1 11
Closing Balance	.....	6,05,183 1 6	4,92,254 9 0
Estimated Balance on 31st March 1895	17,67,289 0 0	.....	.....
Total Rupees ...	80,24,500 0 0	23,07,728 6 6	24,88,142 10 11

List of Additional Grants sanctioned by the Corporation for the Quarter ending 30th June 1894.

Resolution No.	Month and Date.		Amount.
	1894.		Rs. a. p.
301	April	5 ... Grant of Rs. 618 from unappropriated balance to meet the cost of paving with Indian Patent stone 1,500 s. feet of compound of the Health Department stables, Kamatipura, with a view to its being ascertained whether the stone is suitable for the purpose	618 0 0
505	„	5 ... Grant of Rs. 1,610, from unappropriated balance to be adjusted hereafter against Surplus Cash Balance, to meet the cost of railing and paling for Municipal ground at Foras Road, with a view to prevent the fouling of the ground by passers-by	1,610 0 0
677	„	16 .. Grant of Rs. 5,925, from Surplus Cash Balance, to meet excess on the grant for pensions, gratuities and compassionate allowance due to the additional number of employés who retired on pension during 1893-94, and to compassionate allowance payable to the families of employés who have died in the Municipal service.....	5,925
924	„	19 ... Grant of Rs. 911 from unappropriated balance to be adjusted hereafter against Surplus Cash Balance, to meet the cost of filling in the Municipal ground, situate between the Railway and the chawls to the North of Mori Road, Mahim level-crossing, which the Health Officer reports is a foul hole	911 0 0
1632	May	10 ... Grant of Rs. 5,608, from Surplus Cash Balance, to meet the cost of providing 49 side entrances to the Frere Road Sewer, in order to minimise the nuisance that exists there from the accumulation of silt and to enable labourers engaged in cleaning the same to work without danger to themselves.....	5,608 0 0
1640	„	10 .. Grant of Rs. 36 per mensem, from Surplus Cash Balance for the employment of 3 Janitors at Rs. 12 each, for day duty at the 3 main entrances to the Municipal Office.....	432 0 0
1643	„	10 ... Grant of Rs. 700 from Surplus Cash Balance, to meet the cost of building a wall at Clerk Road to prevent the owner of building thereat from acquiring the right of light and air of Municipal ground and W. W. Maintenance building	700 0 0
1849	„	14 ... Grant of Rs. 19,353 from Surplus Cash Balance, to meet the cost of rebuilding of the retaining wall of the Walkeshwar Road, Chowpati	19,353 0 0
		Carried over Rupees...	35,157 0 0

Resolution No.	Month and Date.		Amount.
			Rs. a. p.
	1894.	Brought forward Rupees...	35,157 0 0
1852	May 14 ...	Grant of Rs. 248 per mensem from Surplus Cash Balance, to provide for the cost of staff, coal and maintenance during 1894-95 of the new steam engine purchased for the flushing of gullies	2,916 0 0
1853	,, 14 ...	Grant of Rs. 2,671-6-0 from Surplus Cash Balance for payment of pensions in the year 1894-95.....	2,671 6 0
1856	,, 14 ...	Grant of Rs. 7,500, from Surplus Cash Balance, for adjustment of the advance of that amount sanctioned by the Corporation under their Resolution No. 12210, dated 16th February 1893, being the first moiety of cost of the incinerator purchased from Messrs. Garlick & Co.	7,500 0 0
1857	,, 14 ...	Grant of Rs. 6,450, from Surplus Cash Balance, to meet the cost of (1) one six feet face plate lathe with 13 feet gap bed, complete, with counter-shaft, tools and spanners, Rs. 3,600; (2) one radial drilling-machine of 3 foot radius with counter-shaft, Rs. 1,350; (3) set of 41 twist drills and 4 sockets, Rs. 550; (4) one pipe and bolt screwing machine, complete, with counter-shaft, Rs. 950	6,450 0 0
1858	,, 14 ...	Grant of Rs. 231-8-0, from Surplus Cash Balance, to purchase 23·15 square yards, or thereabout, of ground, situate at Moogbhat Lane, as site for a dust bin cart, at Rs. 10 per square yard ...	231 8 0
1870	,, 14 ...	Grant of Rs. 1,883, from Surplus Cash Balance, to provide for the cost of further thorough trial, for one year, of incandesent gas-lights ...	1,883 0 0
2877	,, 14 ...	Grant of Rs. 2,391, from Surplus Cash Balance, to meet the cost of draining certain buildings into the Apollo Basin.....	2,391 0 0
2880	June 14 ...	Grant of Rs. 510-4-0, from Surplus Cash Balance, to meet the cost of telegraphing to the Government of India and the Government of Bombay the representations of the Corporation on the subject of the proposed further increase of the Bombay City Police	510 4 0
2887	,, 14 ...	Grant of Rs. 3,344 from Surplus Cash Balance, to meet the ground-rent payable during 1894-95 to the Port Trust for land leased for the site of a temporary chawl for bigaries of the Health Department	3,344 0 0
	,	Total Rupees...	63,054 2 0

No. 9385 OF 21*st July* 1894.

Forwarded to the Standing Committee for information.

H. A ACWORTH, Commissioner.

No. 4426. *Resolved* : " That memorandum No. 9385, dated 21st instant, and the returns forwarded therewith, be *recorded*."

No. 4427. *Resolved* : " That the following be laid on the table :—Letter, dated 20th instant, from Messrs. Ardaseer Framjee Moos and Nánábhái R. Ráninâ, stating that they have audited the weekly statements of receipts and disbursements at the end of each week, for the month of June last, and compared them with the general and subsidiary ledgers and journals, and found them correct. Forwarding the usual summary and statement of their scrutiny of accounts."

Considered the following :—

BOMBAY, 17*th July* 1894.

TO THE CHAIRMAN AND MEMBERS OF THE STANDING COMMITTEE, MUNICIPALITY, BOMBAY.

GENTLEMEN,—On behalf of our clients Messrs. R. Ramchundra & Co., we have the honour to address you as follows :—

Our clients are the contractors for the supply of certain disinfectants to the Municipality for the year 1894-95.

The disinfectants contracted to be supplied, as per samples sent in and approved and accepted by the Municipality, were offered, but the Health Officer has refused to accept them, not on the ground that they were inferior or not of the quality agreed to be supplied, but on the ground that they were not of the description of the articles agreed to be supplied. He does not at all dispute that they are of the description of which samples were sent in and approved. Our clients contend that the articles, which they contracted to supply and which they have offered, have been of the description of the samples approved and accepted by the Municipality, and that they, our clients, are not bound to supply any other under the said contract.

The matter having been laid before the Municipal Commissioner, that officer has decided against our clients. Since then correspondence has taken place between our clients and the Commissioner, which will be found on the Municipal file.

Before taking legal proceedings which the Commissioner has invited our clients to do, we are to request that will be so good

as to send for all the papers from the Municipal Commissioner and consider them at the next meeting of your Committee, and communicate to us your decision thereon.

We have only to add that our clients are advised and firmly believe that on a perusal of the papers your Committee will not fail to arrive at the conclusion that the decision of the Commissioner is manifestly erroneous, and that it would not be to the interest of the Municipality to compel our clients to take into Court a matter in which their rights are so clear.—We have, &c.,

ARDASIR, HORMUSJI AND DINSHA,
Solicitors, High Court.

No. 4428.

Resolved : "That in reply to their letter to the Chairman and Members of the Committee, dated 17th instant, on behalf of Messrs. R. Ramchander & Co., on the question of the supply of disinfectants to the Municipality during the years 1894-95, Messrs. Ardasir, Hormusji and Dinsha be informed that the Standing Committee see no reason to interfere with the Commissioner's decision in the matter."

Considered the following :—

Letter to the Commissioner, No. 10102, dated 16th June 1894, from the Health Officer, as under :—

SIR,—In replying to the resolution of the Standing Committee, No. 1937 of 1894-95, on my report concerning the unusual impurity at that time of the water from Tulsi, and in giving an explanation of the reasons I had for forming the opinion I did of the causes of the impurity, it will be necessary to repeat some of the statements that have been made in my previous report to which I must refer.

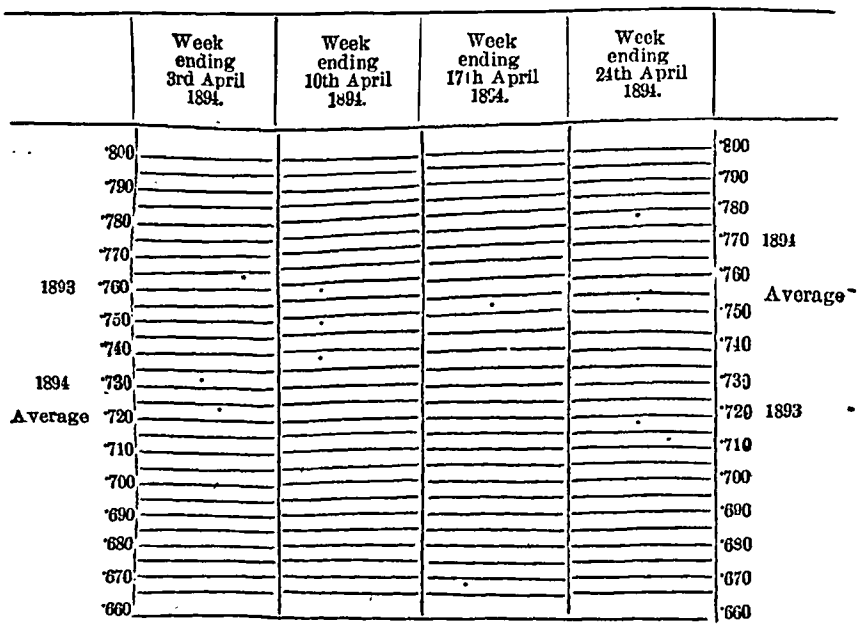
2. I stated :—"It appears to me the cause of the unusual "growth of vegetable matter in the Tulsi Lake has been the "abnormal atmospheric conditions, one of which has been "visible to all—the clouded sky of the hot season."

3. The more I have considered the phenomenon the more I am satisfied that this is the true explanation of the sudden growth of the cellular formation which polluted the water.

4. With a clouded atmosphere there would be two conditions already present—increased moisture and less sunshine, *i.e.*, two conditions favourable to the growth of vegetable and minute forms of life in water.

5. The first condition of moisture, although I admit that a diagram of conditions within the Island of Bombay may not absolutely represent conditions at Tulsi, is shown in the following diagram :—

Diagram showing the relative humidity of the air.



6. It will be seen from this diagram that the moisture in the atmosphere in the last weeks of April of this year was greater than in the corresponding weeks of the last year, and also greater than in the same weeks of the preceding five years.

7. This phenomenon in itself would almost establish my suggestion. But it is supported by other phenomena.

8. The growth of vegetation in favourable situations during this hot season, even within this Island, was, I have no doubt, noticed by the Committee of the Corporation on their recent journey to Tulsi. Near the railway lines and in hollows where shade is found we saw swards as if in the middle of the monsoon.

9. I showed the members of the Committee a tank near Thana, the bottom of which was quite green with vegetation.

10. We also see tanks in the city, two of which I have in mind covered with vegetation in active growth.

11. We have had the same experience many times before in the rains or in the autumn. A rapid growth of vegetation followed by decay and serious nuisance.

12. This phenomenon, the sudden and rapid growth and decay of vegetable matters in shallow waters is a very common one, and if the decayed and effete matters are removed, the waters are generally left purer than they were before.

13. In a standard work the sensitiveness of some minute forms of organic life in water is thus referred to :—

"They also sustain, unharmed, considerable vicissitudes of "weather, notwithstanding which they are, however, regular "barometers, rising and sinking in the fluid medium which "surrounds them alternately either as the sunshines and warmth "is diffused or as clouds and rain obscure the sky and cold "prevails. In this way, too, they protect themselves in a great "measure from the alternations of weather, the water being "much warmer beneath the surface than on it. This power which "the confervæ possesses of rising and sinking in water in corre-"spondence with atmospheric changes, is to be explained by "reference to their specific gravity, which is in proportion to "the activity with which the function of respiration is "carried on. During the autumnal and early spring months "the confervæ remain almost entirely at the bottom of the "water, except when tempted by a few sunny days to rise to "the surface and expose themselves to the contact of the air, so "that the naturalist engaged in the investigation of these "productions is often surprised on visiting ponds in which he "beheld the day previously confervæ floating on the surface "in considerable quantity, to find that on his next visit that "they have all vanished." The confervæ are also amongst the first, if not the very first, subjects of creation to feel the approach of more genial weather beginning to vegetate sometimes so early as the month of January or February.

14. This is a phenomenon which all who study life in pools of water observe from time to time.

15. In the Babula Tank a most serious public nuisance, that could be felt not only near the tank, but hundreds of yards off, has more than once been caused by the growth and decomposition of vegetable matter that may always be seen in small quantities in the tank.

16. In 1877 a serious nuisance, which a member of the Corporation may recollect, was caused on the Walkeshwar foreshore by the decay of vast quantities of marine algæ. Dr. Blaney will remember this as his opinion was asked by H. E. the Governor, and I met Dr. Blaney at a consultation. The nuisance was so serious as if vast quantities of decomposing fœcal matter had been carried to the shore, felt as it was all over Walkeshwar, that at first it was thought to have been caused by the washing ashore of night-soil from the Love Grove outfall. I found, however, the cause between the rocks.

17. In my former report I have stated that not only was the water in the Tulsi Lake in an abnormal state of impurity at that time from vegetable growths, but the water in the Vehar Lake was affected and the purity of that lake disturbed.

18. The most common of these growths may be referred to a Desmidia—the Cosmarium Margareti ferum.

19. The great and sudden impurity of water in and from the Tulsi Lake at this period should not be confounded with the constant impurity in the water. The ordinary and constant impurities in the water are described amongst other reports in the extract from the Annual Report for 1879, which I gave in my last report.

20. These ordinary impurities must not be confounded with the impurity which I am now reporting on. Beyond the constant measure of impurities there was at this season a sudden and phenomenal impurity caused by the great increase of the vegetable matters always found in Tulsi and Vehar water.

21. The constant impurity is caused by the washing into the lake of vegetable refuse from the hill around, and as the level of the water in the lake sinks, the water becomes more impure, for the impurities are concentrated. The cause of this is the vegetation and brushwood above the banks of the Tulsi Lake and the bare mud of the earth banks.

22. The remedy has frequently been pointed out. The removal of the brushwood and vegetation from the forest whence the waters pass to the lake, or, in other words, (1) the clearing and cleaning of the gathering ground, and (2) the growth of sward round the banks of the lake.

23. These causes of the constant impurity, or rather the ordinary impurity, of the Tulsi water have been described again and again, and they have long been known.

24. But beyond these ordinary causes and the ordinary state of impurity there has been in April of this year a rapid growth and decay of vegetable matter, and to that growth the great impurity this year was due.

25. Some notable phenomena of the life in water in all climes it may be well to recall in the authentic descriptions of them—for from these phenomena much is suggested of help in the observation and study of our own lake waters. The descriptions to which I would invite attention are—

"Breaking of the Meres" is a phrase which represents certain phenomena in still inland waters, which the uneducated marvel at, because they cannot comprehend. Much speculation has been indulged in as to its cause, but the true interpretation seems to

have been reached by a small committee of a local Society which was appointed to investigate the Meres of Shropshire. The report states that "an interesting phenomenon occurs at certain "seasons of the year in this (Ellesmere) and some of the other "Meres which the people of the neighbourhood are accustomed to "call 'breaking of the water' or 'breaking of the Mere.' To a "stranger the terms are somewhat misleading, as they appear to "suggest a violent agitation of the water, of its bursting through "its banks, whereas the phenomenon resembles the breaking of "wort in the process of brewing, causing a discoloration of the water, "rendering it unfit for consumption and spoiling the fisherman's "sport. In its normal condition the water is pure and limpid, "perfectly suitable for domestic purposes; but when it breaks it "becomes turbid from the formation of small dark-green bodies in "countless thousands, which not only float as a scum on the "surface, but abound throughout the whole of the water. The "change is so apparent that it cannot escape the notice of "the most careless observer. On examining the floating matter "of Ellesmere, the green bodies composing it are found to be "rather smaller than a turnip seed, spherical in form and of "the deep green colour familiar to us in the rust of copper. "Their specified gravity must be nearly the same as that of "the water, which will account for their rapid dissemination "throughout it when disturbed and rising to the surface when "at rest." This Mere abounds in fish, and is much frequented "in the proper season by anglers, but as soon as the breaking "begins all sport invariably ceases, and the fish becomes "torpid, refuse the bait and sulk at the bottom. Whether this "curious effect upon them is caused by some injurious gases "generated at the time, or by the minute green bodies already "mentioned entering their gills and impeding respiration, is a "question not yet determined."

"Various popular explanations have been given of this break-"ing, the more generally accepted one being that it results from "the seeds of aquatic plants growing on the margin of the Mere "falling into the water, and there is some probability on the face "of this explanation, because it generally occurs in the autumn "when plants begin to drop their seeds, and the green bodies "somewhat resemble a minute seed. In 1878 the late Revd. W. "Leighton pointed out that the real cause was the rapid germina-"tion of a minute plant classed amongst the algæ, and formerly "known as conferva echinata, but which he intimated should, "according to modern classification, be called Rivularia "articulata."

These phenomena are evidently not confined to our own islands, for Professor Cohn refers to something very similar which is known in Germany as water blossom. "Though the appearance has often been observed and examined," he says,

"very little is known of the causes from which it originates. "Within the course of a few hours an alga so densely covers a "vast extent of the surface of the water, that it imparts to it "a distinct colour, green, brown or red; sooner or later it dis- "appears either periodically or altogether. The only reason "for this that can be assigned, apart from the extraordinary "increase of the respective species, is the sudden change of their "specific gravity which causes them to rise suddenly from the bot- "tom of the water, where they are developed in vast numbers, to "the surface, and as suddenly to sink down again." As a specific instance, he alludes to the Leba, near the Prussian frontier. "This Leba is a true moor-river; its banks are quite flat, the bed "is nothing but moor and swamp, which gives way under one's "feet. Whenever the river is about two feet deep, the water takes "a brown colour, which prevents people from seeing to the bottom. "On July 19, 1877, the river appeared quite green, from a vast "quantity of minute spherical bodies which float on its surface, "and even ordinary people were struck by it. The phenomenon, "which was first noticed towards noon, lasted for about five hours, "and had totally disappeared in the evening. The next morning "there was nothing to be seen; but at noon there was again a large "quantity, whilst there were very few towards night. It was "similar on the third day, but since then the minute spherical "bodies have entirely disappeared from the Leba."

26. Here is the description of another growth :—

About 1886 an epidemic on the Continent was traced to this source. Pieces of cooked meat presented a singular carmine-red coloration and stained vividly the fingers or linen with which they came in contact. These phenomena prevailed regularly for a period of three months. Food cooked overnight was found the next morning covered with red patches, and it then underwent rapid alteration. Coincident with a sudden and considerable fall in the temperature, the epidemic ceased and has not re-appeared. Berkeley has also stated that "In the hot days of July 1853, provisions which were cooked in the evening were in some cases the next morning covered with this production. The only instance of similarly rapid development is that of yeast globules, and it is there probably that we must look for the true solution of the question as to its real nature." And again: "The rapidity with which it spreads over meat, boiled vegetables, or even decayinga garics is quite astonishing, making them appear as if spotted with arterial blood; and what increases the illusion is, that there are little detached specks, exactly as if they had been squirted injets from a small artery. The particles of which the substance is composed have an active molecular motion, but the morphosis of the production has not yet been properly observed,

and till that is the case, it will be impossible to assign its place rightly in the vegetable world. Its resemblances to the gelatinous specks which occur on mouldy paste or raw meat in an incipient state of decomposition, satisfy me that it is not properly an alga."

27. It has to be remembered in following up the decayed matter from the lake that the vegetable growths in the lake when they seem to have lost vitality, are blown together in masses by the wind, and as we have often seen in tanks or wells in this city where the water settles, a deposit, almost a pulp—a paper pulp—rapidly forms at the bottom.

28. In the Malabar Hill Reservoir a deposit formed and in the heated atmosphere of the Reservoir rapid and fœtid decomposition was encouraged and helped. This deposit was the same in character as the deposit I have, in former years, taken out from Vehar dipping wells. It seems to me that an economical use may yet be made of this deposit, and I suggest that a portion be sent to one of our paper-mills for experiment.

29. There is, therefore, a danger in distribution at such a time of the effete vegetable matters, which have a great tendency to agglutination, carried into and precipitated in the reservoir being delivered in masses *either from the pipes or from settling tanks or basins.* This is a very grave danger.

30. I may here mention a curious but interesting phenomenon which the Committee observed when returning across the Vehar Lake. On the north-west side, where I observed that in many places the weeds that I had seen on my former inspection had disappeared, the water was clear, had no odour and very little vegetable matter, although the particles of matter were more perfectly developed than the matter in the water near the outlet; but as we proceeded out of the area of weeds, the vegetable matter began to increase, and the water near the middle of the lake had a musty odour.

31. It is certain that in the shallow water the growing weeds and filamentous matters do not favour the growth of the fine vegetable particles. This phenomenon ought to be kept under observation.

32. I doubt very much whether any system of filtration will be able to purify the water when impurities have suddenly grown, as they have been seen to multiply and decay in April of this year. There is nothing to be done then but to stop the water from the city and let out water from the lake through the sludge-pipe.

33. The observation of deposit in the settling tanks is an important matter. Any sudden formation of deposit might cause serious impurity, and it is not easy to prevent it. It is

difficult to say how often the deposit should be removed, but it is safe to say and lay down the rule—as often as possible, as often as can practically be done.

34. I take it there can be no doubt that the basin or channels through which the water passes after filtration should be kept absolutely pure and cool. The temperature of the reservoir is far too high. In the Malabar Hill Reservoir I know that care is taken in the conservancy of the reservoir. But when a sudden impurity comes, as it did in this year, it is very difficult to deal practically with it, although the object ought to be to remove the deposit as quickly as it forms.

35. As the possibility of the contamination by crocodiles of the Vehar and Tulsi Lakes has been discussed again and again, I feel I can do no better than give the opinion which Dr. Kirtikar gave in 1891. Dr. Kirtikar has an intimate knowledge of the lakes and of their life history, and his opinion is of value. Dr. Kirtikar wrote :—

"The public mind has been exercised during the quarter under report on this point, and though there is no actual alarm, there are certain misgivings in some quarters with regard to the purity of our water-supply. I think it my duty to remove any and every possible erroneous impression that is likely to arise from a discussion of the question of the existence of crocodiles in the Vehar Lake. It has been decided by the Corporation to adopt means to destroy them and to pay for their destruction. It is to be hoped that no step may be adopted to destroy them in *toto*. The total destruction of crocodiles would mean the destruction of the present purity of our water-supply. I say so emphatically and for this reason : It must be remembered that crocodiles as a race are the natural scavengers of the water reservior they inhabit. They destroy living, dead, and decomposing animal and vegetable matter, and thus remove from water the obnoxious substances which must of necessity exist in stagnent waters, however large, and which no human agency of any kind or potency can ever remove, which no amount of labour can get at, and which no amount of money can destroy. It is comparatively easy to get a few crocodile heads or tails at so much apiece. But the warning word of science must go forth to put the authorities on their guard—that to destroy the whole band of crocodiles now existing in our water-reservoirs would be to purchase the future impurity of our water-supply. Numerous algæ and water plants exist in the lake; water-snakes, turtles, fishes, frogs, leeches, water-fowls of various sorts, and innumerable animalcules of the invertibrate kingdom live and move and have their being in the water. In the natural course of their lives they create filth; ultimately they die and decompose. All these serve as a prey to the crocodiles. The natural voracity of the

crocodiles leads to the construction of those water-polluting materials, in their dead and decomposing condition as well as in their live state. I therefore submit that if the destruction of the crocodiles is to be carried out, let it not be entire."—I have, &c., T. S. WEIR, Health Officer.

No. 6531 OF 19*th June* 1894.

Forwarded to the Standing Committee with reference to their Resolution No. 1937, dated 16th ultimo.

H. A. ACWORTH, Commissioner.

No. 4429. *Resolved*: "That the following be *recorded* on the minutes of this day's meeting :—Memorandum No. 6531, dated 19th ultimo, from the Commissioner, submitting explanation of the Health Officer, asked for by the Standing Committee in their Resolution No. 1937, dated 16th May 1894, as to why he considers that clouds have an influence on the condition of the Tulsi water."

No. 4430. *Resolved*: "That the following be *recorded* :—Memorandum No. 2804, dated 5th May 1894, from the Commissioner, forwarding, with reference to the Committee's Resolution No. 1752, dated 31st May 1893, statement showing (1) the number of cases during the past three years in which agreements for set-backs have been entered into by the Municipality with the owners of private properties ; and (2) the estimates of the probable cost which would have been incurred if all the properties had been immediately acquired."

No. 4431. *Resolved*: "That a Sub-Committee, consisting of the following gentlemen, be appointed to consider and report on the draft Regulations framed by the Commissioner under section 406 of the Municipal Act, relating to Markets and Slaughter Houses, and forwarded under his letter to the Secretary, No. 9484, dated 23rd instant. The Chairman, Mr. R. H. Vincent, and the Hon'ble Mr. Javerilal U. Yajnik."

The following statement * was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes, for the week ending 22nd July 1894.

* *See* Appendix B.

The consideration of the List of "Outstanding Business" (1st July 1894) was proceeded with.

1. Memorandum No. 16038, dated 24th October 1892, from the Commissioner, forwarding Counsel's opinion on the question of the legal position of the Standing Committee as regards calling for reports, &c., and motion thereon, by Abbalia M. Dharamsi, Esq., seconded by A. G. Viegas, Esq., on the 23rd November 1892. Consideration postponed (7th December 1892. *Struck out.*

2. The Commissioner requested to furnish information on the following points in regard to set-backs :— (1) The number of cases during the past three years in which agreements for set-back have been entered into; and (2) an estimate of the cost which would have been incurred if all the properties concerned had been immediately acquired (31st May 1893). The statement in question was furnished by the Commissioner on 5th May 1894. It was agreed that the statement be circulated to members of the Committee (9th May and 6th June 1894). *Struck out,* the return of set-back cases having been this day considered and disposed of.

7. Memoranda Nos. 27987 and 27992, dated 28th March 1894, from the Commissioner, reporting the recent bursts of water mains. Referred back to the Commissioner for favour of enquiry as to whether it was scientifically correct to lay down mains on the Bombay end of the Tansa pipe, which are $\frac{1}{8}$ of an inch thinner than those used on other portions of the Tansa Line, and if not, why such mains of inferior thickness have been laid (4th April 1894). Letter No. 6532, dated 19th June 1894, from the Commissioner, stating that it was scientifically correct to lay down mains on the Bombay end of the Tansa pipe, $\frac{1}{8}''$ thick. Papers in circulation among members of the Committee (20th June 1894). *Struck out,* the report of the Commissioner having been considered and disposed of on the 18th instant—*vide* Resolution of the Standing Committee, No. 4343 of 1894-95.

8. Letter No. 27781, dated 20th March 1894, from the Commissioner, on the subject of the construction

of filter beds at the Malabar Hill Reservoir. Referred to a Sub-Committee for report (11th April 1894). Report received and consideration thereof postponed (30th May, 6th and 13th June 1894). *Struck out,* the Report of the Sub-Committee having been considered and disposed of on the 11th instant—*vide* Resolution of the Standing Committee, No. 3976 of 1894-95.

10. The Commissioner requested to ask the Health Officer for fuller explanation as to why he considers that clouds have an influence on the condition of the Tulsi water (16th May 1894). Memorandum No. 6531, dated 19th June 1894, from the Commissioner, submitting explanation of the Health Officer as to why he considers that clouds have an influence on the condition of Tulsi water. Papers in circulation among members of the Committee (20th June 1894). *Struck out,* the Health Officer's report having been this day considered and disposed of.

15. The question of the validity of the payment of the claim of the Scottish Orphanage, for the value of the 155·77 square yards of land taken from them for street improvement at Mahim, and of the trees thereon. Referred for the opinion of the Standing Counsel to the Corporation with reference to the power of the Corporation under any circumstances to pay a claim, apparently time-barred (20th June 1894). *Struck out,* Counsel's opinion having been presented and disposed of on the 18th instant—*vide* Resolution of the Standing Committee, No. 4332 of 1894-95.

16. The question of the improvement of First Marine Street. Sub-Committee appointed to enquire into and report (27th June 1894).

Letter No. 6050, dated 12th June 1894, from the Commissioner, requesting sanction to the acquisition, at a cost of Rs. 28,000, of land and house thereon, the property of Mr. Adamji Vulji, required for making a road, in continuation of Carnac Road, into Queen's Road. Consideration postponed (27th June 1894). *Struck out,* as a Sub-Committee are now enquiring into the question of the proposed improvement of First Marine Street.

BOMBAY, 1*st August* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; THE HON'BLE MR. *FAZULBHOY VISRAM*; *HURKISON* DAS NURROTUMDAS, ESQ.; THE HON'BLE MR. *JAVERILAL UMIASHANKER* YAJNIK; *KAIKHOSRO N. KABRAJEE*, ESQ.; *K. M. SHROFF*, ESQ.; *S. REBSCH*, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L. M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPTAIN W. P. WALSHE.

H. A. ACWORTH, ESQ., I.C.S., Commissioner; and the SECRETARY.

The minutes of the Meeting held on the 25*th* ultimo, were signed.

No. 4685. The seal of the Corporation was affixed to deeds of contract (1) with Messrs. John Fleming & Co., for the supply of 40 fire hydrants, Water Works, at the rate of Rs. 52 each, and (2) with Aga Mirza Ali Akbar for the sale of refreshments in the Victoria Gardens.

No. 4686. *Resolved* : " That, as applied for by the Commissioner, in his memoranda Nos. 9833 to 9838, dated 27th ultimo, and No. 9914, dated 28th idem, sanction be given, under section 351 (2) of Municipal Act, to the removal of the following structures built without permission :—

Names of Owners.	Where.
Mr. Mahmod Ali Abadin	...Shed at Nos. 79-81, Falkland Road.
„ Dhakoo Narayen	..... „ at Queen's Road.
„ Sacaram Babaji	..... „ at Tardeo Road.
„ Dosabhai Sorabji	.....Building at First Pinjrapol Street.
Bai Mathurabai, widow of Mr. Raghunath Damodar	.....Shed at Gamdevi Road (Babulnath.)
Mr. Isak Hadji Abdul Rahimon	.....Shed at No. 26, Bhangi Moholla, Islampura.
Mr. Narayen Ipji	.....Shed at No. 25, Khetwadi Main Road.

No. 4687. *Resolved* : " That sanction be given to the cutting off of water-connections as per list accompanying the Commissioner's memorandum No. 10211, dated this day."

Resolved : "That the following be *recorded*:—Letter
No. 4688. to the Secretary, No. 9858, dated 27th July 1894, from the Commissioner, reporting, as required by section 92 (*a*) of the Municipal Act, that he has sold, by public auction, to Mr. Malharrao Makundrao, the right of cutting grass from 19,777 square yards of Municipal ground, *viz.*, (1) about 4,828 square yards, at Bellasis Bridge; (2) about 6,391 square yards at Arthur Road; (3) 7,720 square yards, from Agripada open drain, Milch cattle stables thereat, Haines Road to Arthur Road; (4) 838 square yards, between Wari Bandar Road and the G. I. P. Railway Company's compound at Hancock Bridge, for 10 months from 1st August 1894 to 31st May 1895, for Rs. 275."*

Resolved : "That the following be *recorded*:—Letter
No. 4689. to the Secretary, No. 10066, dated 30th July 1894, from the Commissioner, stating, with reference to his report of the acceptance of the offer of Mr. Sha Mahomed Sherubhai, for the supply of mutton and beef required for feeding animals in the Victoria Gardens, during 1894-95, at a cost of about Rs. 2,000 per annum, which report was *recorded* by the Committee in their Resolution No. 3145, dated 20th June 1894, that the total estimated cost will be Rs. 2,068-7-0, including cooly-hire at the rate of 3 annas per day."

Resolved : "That, as applied for by the Commissioner,
No. 4690. in his memorandum No. 9559, dated 24th ultimo, and subject to the approval of the Corporation, sanction be given to the transfer of Rs. 568-12-0, from savings in the grant for Conservancy, section II, Surface Drain Cleaning, Feed of Bullocks, to section IV, Repairs (Road to Tardeo Flats), same head, to meet excess due to insufficient Budget provision."

Resolved : "That, as applied for by the Commissioner
No. 4691. in his letter to the Secretary, No. 9788, dated 26th ultimo, sanction be given, under

* The right was sold last year for one year for Rs. 135.

sections 211 and 517 (1) (*j*) of the Municipal Act, to the filing of a Suit, in the Court of Small Causes, against Messrs. Hussein Karim Mahomed, Vazir Karim Mahomed, Piru Karim Mahomed and Ahmed Karim Mahomed, for the recovery of Rs. 197-1-2, being the amount of property taxes and notice fees in respect of house, B Ward, No. 309, Nagdevi Road, for the second half of 1893-94 and the first half of the current year."

Considered letter to the Secretary, No. 9938, dated 28th ultimo, from the Commissioner, as under :—

SIR,—With reference to the Resolution of the Corporation, No. 12138, dated 12th February 1894, sanctioning the employment of the establishment, as per margin, for working the Garlick Incinerator at a cost of Rs. 700 per mensem, and payment of the necessary expenditure during the year 1893-94, out of savings in the Health Department Budget, I have the honor to state that the Health Officer reports that as the work of fixing the revolving grid was finished, he commenced to work the incinerator and to burn kachra in it from 26th ultimo. The Silchar incinerator sanctioned in Corporation Resolution No. 12139 of 12th February 1894 is now ready, and three biggaris are needed there. The Health Officer, therefore, requests sanction to the employment of the undermentioned staff at a cost of Rs. 480 per month from the abovementioned date, *viz.* :—

27 Coolies, at Rs. 10 each	...	Rs. 270
3 Mukadams, at Rs. 15 each	...	„ 45
3 Third class Engineers, at Rs. 40 each	...	„ 120
12 Tons of coal, at Rs. 18 per ton	...	„ 216
Oil, waste, &c.	...	„ 25
Repairs	...	„ 24
		Rs. 700

		Rs.	a.	p.
2	Drivers, at Rs. 35 per mensem each	70	0	0
2	Coalmen, at Rs. 12 do. do.	24	0	0
15	Tons coal, at Rs. 19 per ton	285	0	0
	Oil waste, packing, &c.	19	0	0
	Repairs	12	0	0
7	Biggaries, at Rs. 10 per month each	70	0	0
	Per month Rs.	480	0	0

The mukadams and biggaries formerly employed on the old beehive incinerator are now employed on the Garlick Incinerator, but four more are required, and three are needed for the Silchar incinerator.

The total cost is Rs 3,920, to which must be added Rs. 27-10-8, the wages of a biggari temporarily employed by the Health Officer from 1st April to 25th June inclusive; total Rs. 3,947-10-8. Pro-

vision for this could not be made in the budget for 1894-95, which was submitted to the Standing Committee in November last, and sanctioned by the Corporation in January 1894, as it was not known then whether the Garlick Incinerator would be successful or not, and whether the Corporation would take it over.

Under the circumstances, I request the sanction of the Standing Committee and the Corporation to the cost of the establishment, now employed, being paid out of Surplus Cash Balance.

Estimated surplus in excess of what has already been appropriated in the budget for 1894-95 .....Rs.		*3,50,000*	*0* *0*
Out of this sum, payments excluding temporary advances, to be adjusted hereafter, have been already sanctioned to the extent of .....Rs.	1,03,513-12-6		
Expenditure recommended for sanction „	11,466-0-0		
		1,14,979	12 6
Available Rs....		2,35,020	3 6

I have &c.,

H. A. ACWORTH, Commissioner.

No. 4692.

Resolved: "That letter to the Secretary, No. 9938, dated 28th ultimo, from the Commissioner, be forwarded to the Corporation, with the recommendation that sanction be given to the expenditure from the 26th June 1894 up to the end of the current financial year, of Rs. 3,947-10-8, from Surplus Cash Balance, to meet the cost of establishment, coal, &c., as per margin, (1) for the working of Garlick's Incinerator erected in the compound of the Municipal Workshops, and (2) ditto of the Silchar Incinerator on ground at Sewri, leased from Government."

	Rs.	a.	p.
2 Drivers at Rs. 35 per mensem each.....	70	0	0
2 Coalmen at Rs. 12 do. do.	24	0	0
15 Tons coal at Rs. 19 per ton 285	0	0	
Oil waste, packing, &c.	19	0	0
Repairs	12	0	0
7 Biggaries at Rs. 10 per month each	70	0	0
Per month Rs.	480	0	0
For 8 months and 5 days „	3,920	0	0
Add—			
Wages of a biggari temporarily employed by the Health Officer from 1st April to 25th June 1894, inclusive	27	10	8
Total...Rs.	3,947	10	8

Considered the following :—

BOMBAY, 21*st July* 1894.

No. 9435 OF 1894-5.

TO THE MUNICIPAL SECRETARY.

SIR,—I have the honour to say that the fall in Exchange has rendered an additional grant necessary for the Colaba Sewerage Works. The cost of the ejectors and air-compressing machinery was originally taken not in sterling but at Rs. 173,990. The sterling price at which the plant was finally ordered was £13,651. At the then (October 1893) ruling rate of exchange (1*s.* 3½*d.*) the value of this was Rs. 2,11,371, which was in excess of the sum originally allotted to this particular item, but caused no excess on the general estimate, owing to savings in other items, particularly that of pipe sewers.

The following remittances have been made under the contract with the makers of the machinery, Messrs. Hughes and Lancaster.

	£	*s.*	*d.*		Rs.
On 14th March 1894,	3,300 at	1	2	=	56,571
On 11th April 1894,	3,400 at	1	$0\frac{3}{8}$	=	59,890
On 18th July 1894,	2,000 at	1	$0\frac{5}{32}$	=	37,555
				Rs.	1,54,016

The following remain to be made :—

£3,400, about 15th August 1894.
£1,551, about November 1895.

There will also be a charge of about £157 for fees to Major Tulloch and £654 for metal vent shafts. The last item, however, be the rate of exchange what it may, will result in a saving as compared with the original estimate for vent shafts. I have directed, after making enquiries, the exchange for the payment which will probably fall due about the middle of next month to be purchased, and a rate of 1*s.* $0\frac{27}{32}$*d.* has been obtained. This gives a total rupee expenditure on machinery up to date as—

	Rs. 1,54,016
	„ 63,533
Total	Rs. 2,17,549

To this have to be added the items of—

£1,551
£ 157
£1,708

enumerated above. The smaller can be fixed now, but not the larger. Taking an all-round rate of one shilling the rupee, the rupee cost will be Rs. 34,160, which added to the rupee total

given above will give Rs 2,51,709. To this has to be added the sums of Rs. 22,071 for the ejectors and Rs. 7,539 for the air-compressing machinery for work done in India and to be paid in rupees. The net result for these two items (ejectors and air-compressing machinery) is a rupee charge on the foregoing basis of Rs. 2,78,179 against Rs. 1,73,990 provided in the original estimate.

I give below the main heads of the original estimate compared with the present estimate :—

	Original.	Present.	More.	Less.
	Rs.	Rs.	Rs.	Rs.
I. Pipe sewers	232,677	1,86,998	.....	45,679
II. Vent shafts	28,223	18,444	.....	9,779
III. Flush-chambers ...	14,810	8,908	.....	5,902
IV. Extension to Wellington Fountain.	9,538	6,552	.....	2,986
V. Sealed sewage mains.....	40,884	37,582	.....	3,302
VI. Compressed air Mains.....	11,773	21,395	9,622	.....
VII. Engine House and Buildings	48,976	61,912	12,936	.....
VIII. Land	55,680	63,175	7,495	.....
IX. Distributing chamber.....	500	.....	.....	500
X. Ejectors	95,541	1,23,882	28,341	.....
XI. Air-compressing machinery ...	78,449	1,54,297	75,848	.....
	6,17,051	6,83,145	1,34,242	68,148
Contingencies, &c....	92,557	.....	.....	.....
Rs. ...	7,09,608	.....	.....	.....

It will be seen that in spite of the increase in Items VI, VII and VIII, there would have been a saving of between Rs. 30,000 and 40,000, but for the excess on the Items which involved sterling payments. Some slight additions were made to the plant originally proposed, *viz.*, a small increase in the horse-power of the engines and one more small ejector station, but at the time they were ordered they were fully justified by the state of the finances of the works, and there was no difficulty in arranging for them on the assumption that exchange would remain steady at over 1*s.* 3*d.*—the rate when the contract for the machinery, &c., was sanctioned.

It will, I think, be generally admitted that there were not many people in the country who in October 1893 anticipated the

collapse in sterling exchange which has taken place since. I am at liberty to confess that I for one believed that the measures which had been taken to steady exchange would be effectual to keep it at 1*s.* 4*d.* or thereabouts, and looked last October for a rise and not a fall. I am ready to admit that there is a great deal to be said in favour of the position that the Corporation ought always to know with as much certainty as is humanly attainable what its liabilities are and are to be, and that when any work involving sterling payments is sanctioned exchanges for them ought to be fixed at once. I cannot, however, think that this principle would be quite so confidently urged as it is if the Commissioner were by fixing his exchanges on a rising market to cause loss to the Corporation, and I am sure the Corporation do me the justice to believe that any hesitation I have felt in fixing exchanges has arisen from a hope that by waiting I may make better terms. It is true that the facts of twenty years seem to justify as a sound working hypothesis the theory that the value of the rupee is destined never to rise again in relation to gold, but the circumstances of last autumn were altogether exceptional, and if ever the opposite belief was tenable, it was tenable then :—

I append a table showing the condition of exchange between the first week of October and the last week in June. A study of this will, I think, show how difficult it is at any given time to decide that it is better to buy forward than to wait; but if I understand the Corporation aright, they are of opinion that it is better to obtain certainty even at the risk of a possible loss caused by the improvement of exchange, than to dwell in uncertainty whether loss or gain will be the result of waiting. On these views I am prepared to act in future.

	s.	*d.*		*s.*	*d.*
2-10-93 ...	1	2 31/32	22-2-94 ...	1	1 19/32
9-10-93 ...	1	3 1/16	28-2-94 ...	1	1 9/16
16-10-93 ...	1	3 1/8	1-3-94 ...	1	1 10/16
23-10-93 ...	1	3 3/16	8-3-94 ...	1	1 15/16
30-10-93 ...	1	3 5/32	15-3-94 ...	1	1 15/16
1-11-93 ...	1	3 1/8	22-3-94 ...	1	1 13/16
10-11-93 ...	1	3 5/32	29-3 94 ...	1	1 27/32
17-11-93 ...	1	3 7/32	2-4-94 ...	1	1 25/32
24-11-93 ...	1	3 1/4	10.4.94 ...	1	1 5/8
1-12-93 ...	1	3 5/32	17.4.94 ...	1	1 21/32
8-12-93 ...	1	3 3/16	24-4-94 ...	1	1 19/32
15-12-93 ...	1	3 1/16	30-4-94 ...	1	1 13/32
22-12-93 ...	1	3 3/32	1-5-94 ...	1	1 1/4
29-12-93 ...	1	2 15/16	8-5-94 ...	1	1 3/32
3-1-94 ...	1	3 1/16	15-5-94 ...	1	0 7/8
10-1-94 ...	1	3	22-5-94 ...	1	0 11/16
17-1 94 ...	1	2 15/16	29-5-94 ...	1	1 1/8
24-1-94 ...	1	2 13/32	1-6 94 ...	1	0 29/32
31-1-94 ...	1	2 13/32	8-6-94 ...	1	0 15/16
1-2-94 ...	1	2 6/16	15-6-94 ...	1	1
8-2-94 ...	1	1 14/16	22-6-94 ...	1	1 1/16
15-2-94 ...	1	1 11/16	29-6-94 ...	1	1

I have now to ask the Corporation to sanction a further grant for the Colaba sewerage works. With reference to this I find that the sanctioned establishment for these works has prepared the plans and estimates for the following :—

	Rs.	Rs.
Sewerage of Mazagon Sectional	5,27,610	8,60,271
„ „ Gravitation	3,32,661	
„ Parel Sectional	7,60,090	8,41,710
„ „ Gravitation	81,620	
„Old Race Course (sectional)	3,65,438	7,62,357
Storm water drains in Old Race Course	1,03,909	
Roads in do.	2,93,010	
Storm water drain, Parel Government House Road	2,71,392	2,71,392
Lifting sewage in Queen's Road Sewer		1,86,197
Total...Rs.		29,21,927

The whole of these works must be debited with their own expenses, and the usual 1 per cent. for preparing plans and estimates for them ought to be credited to the Colaba sewerage works. Otherwise the result will be that the cost of one set of works will be partly charged to another and distinct work. I request that this 1 per cent. on these works, severally and respectively, amounting to Rs. 29,219, may be charged against them to the loans or other provision made, or to be made, for them by advances from Surplus Cash Balance and to the credit of the Colaba Sewerage Works. I have further to request that an extra grant of Rs. 50,000 may be sanctioned, either by advances to be adjusted against a future loan or by transfer from the savings on former drainage works. These amount to Rs. 2,86,181-13-6 and the marginal appropriation was proposed on page VI. of the Standing Committee budget at my instance. There does not seem to be much prospect of my being able to bring forward proposals for the first named work (Lifting sewage) for a considerable time, and I think that this item might be otherwise provided for when the time comes, the half lakh now asked for being paid out of the sum proposed to be spent on it. I will make further recommendations as to the disposal of the balance if the Corporation sanction this appropriation.—I have, &c.,

Lifting sewage at the junction of Marine Lines 15" pipe sewer and the Queen's Road ovoid sewer and at the junction of the Queen's Road ovoid sewer and the main sewer at Khetwadi 10th Lane	Rs.	1,86,197
Sewerage of Parel District on Gravitation system	„	81,620
Storm water drain in Cruickshank Road,	„	27,073
	Rs.	2,94,890

H. A. ACWORTH, Commissioner.

Proposed by R. H. Vincent, Esq., seconded by Captain W. P. Walshe—

"That, as applied for by the Commissioner, in his letter to the Secretary, No. 9435, dated 21st ultimo, the Corporation be recommended to sanction (1) an additional grant of Rs. 79,219 for the Colaba Sewerage Works, consequent on the fall in exchange on England since the contracts were entered into for the supply of machinery and materials for the works; (2) Rs. 29,219, of this amount being debited proportionately to other sewerage works now in progress, or to be undertaken on account of charges for the preparation of plans and estimates executed by the Colaba Sewerage Establishment; and (3) Rs. 50,000, being debited to savings in the grants for former drainage works, or to future loan for drainage."

Amendment proposed by A. G. Viegas, Esq., seconded by Kaikhosro N. Kabraji, Esq.—

"That, as applied for by the Commissioner, in his letter to the Secretary, No. 9435, dated 21st ultimo, the Corporation be recommended to sanction (1) an additional grant of Rs. 79,219 for the Colaba Sewerage works, consequent on the fall in exchange on England since the contracts were entered into for the supply of machinery and materials for the works; (2) Rs. 29,219, of this amount being debited proportionately to other sewerage works now in progress or to be undertaken on account of charges for the preparation of plans and estimates executed by the Colaba Sewerage Establishment; and (3) Rs. 50,000, being debited to savings in the grants for former drainage works, or to future loan for drainage.

"That, in the opinion of the Standing Committee, exchange ought to have been covered so far as practicable at the time the contract was given."

The *amendment* was *lost*, the votes being 3 *for* and 6 *against*.

Amendment proposed by Bhalchandra K. Bhatawadekar, Esq., seconded by the Hon'ble Mr. Javerilal U. Yajnik—

No. 4693. "That, as applied for by the Commissioner, in his letter to the Secretary, No. 9435, dated 21st ultimo, the Corporation be recommended to sanction (1) an additional grant of Rs. 79,219 for the Colaba Sewerage Works, consequent on the fall in exchange on England since the contracts were entered into for the supply of machinery and materials for the works; (2) Rs. 29,219, of this amount being debited proportionately to other sewerage works now in progress or to be undertaken, on account of charges for the preparation of plans and estimates executed by the Colaba Sewerage Establishment; and (3)Rs. 50,000, being debited to savings in the grants for former drainage works, or to future loan for drainage.

"That, in the opinion of the Standing Committee, it would have been advisable to have referred the question of fixing exchange to the Committee."

On a division, the *amendment* was *carried* as a substantive proposition.

Resolved: "That the following be *recorded*:—Letter to the Secretary, No. 9694, dated 25th July 1894, from the Commissioner, forwarding letter to himself, No. 8161, dated 23rd idem, from the Executive Engineer, and form of statement forwarded therewith, showing set-back of properties sanctioned under sections 298 and 299 of the Municipal Act. Stating that he (the Commissioner) thinks it would not be wise to quote rates, though, if the Standing Committee wish, he could have the rates entered from time to time as settled and paid, in a book which might be open to inspection by members of the Committee only, but he should not like to do this, if his rates are to be made weekly subjects of controversy."

No. 4694.

No. 4695. *Resolved*: "That the following be *recorded*:—Memorandum No. 9748, dated 26th July 1894, from the Commissioner, reporting, with reference to the Standing Committee's Resolution No. 5620, dated 9th January 1889, the transfer, on the 20th July 1894, of Municipal debentures of Rs. 1,24,000, *viz.*, 5 per cent. debentures of Rs. 48,500, and 4 per cent. debentures of Rs. 75,500, from the Surlpus Cash Deposit Account, to the 5 per cent. and 4 per cent. Municipal Loan Sinking Fund Deposit Account. Also reporting, with reference to the Committee's Resolution No. 4484, dated 9th October 1888, the transfer, on the 21st July 1894, *viz.*, (*b*) of Rs. 1,24,000 from the 5 per cent. and 4 per cent. Municipal Loans Sinking Fund Deposit Account (in cash) to the Municipal General Fund Pass Book."*

No. 4696. *Resolved*: "That memorandum No. 9984, dated 28th ultimo, from the Commissioner, be forwarded to the Committee of the Corporation, appointed on the 10th May 1894, to enquire into and report on the question of the proposed increase in the Refund and Revenue Audit Establishment."

No. 4697. *Resolved*: "That memorandum No. 9655, dated 25th ultimo, from the Commissioner, and the return, as under, forwarded therewith be *recorded*:—

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* The Acting Chief Accountant reports to the Commissioner that the balances remaining to the credit of the above deposit account, after effecting the transfers now reported, stand as under:—

(*a*) In 5 per cent. Municipal Debenture for	Rs. 18,41,000 =	Rs.	18,41,000	0 0
In 4 per cent. do. do.	„ 84,000 =	„	84,000	0 0
In 4 per cent. Government Paper	„ 3,63,500 =	„	3,78,592	3 0
In cash		„	9,939	12 0
		Rs.	23,13,531	15 0
(*b*) In 5 per cent. Municipal Debentures for	Rs. 8,69,500 =	Rs.	8,69,500	0 0
In 4 per cent. do. do.	„ 83,500 =	„	83,500	0 0
In cash		„	585	7 0
		Rs.	9,53,585	7 0

Statement of Houses or Portions of Houses which fell during the month of June 1894.

No.	Ward.	Street No.	Locality.	Names of Owners.	Description of Building.	Age of Building or date of erection (if known).	Date of fall.	Cause of fall.	Part fallen.	Casualties.		Estimated loss.	Whether or not action taken by the Municipality.	Whether or not warning given to the parties.	REMARKS.
										Persons injured.	Persons killed.				
1	B	707-711	Doongri Street.	Messrs. Rahimbhoy Hemraj Meherally & Fazalbhoy Gulam Hoosein.	Chawl four storied, including ground floor.	Not known.	17-6-94..	The woodwork was decayed.	A portion of the gallery in the rear of the 4th storey.	1	Nil.	About Rs. 20	Nil.	Nil.	
2	C	122-124	Chimna Butcher Street.	Mr. Purshotam Hurjiwan.	House one storied.	Not known.	15-6-94.	Old Age.....	Front portion	1	Nil.	About Rs. 75	Nil.	Nil.	Notice No. 46/354 was served on the owner on 20-6-94 to pull down the remaining ruinous portions.
3	D	C	Khetwadi 10th Lane.	Mr. Amerudin Tyabji.	Tiled shed used as a Chawl for poor people.	More than 15 years.	15-6-94..	The posts being old and were unable to withstand continuous wind.	3 ground floor storied rooms.	Nil.	Nil.	About Rs. 250	...	...	
4	E	28-30	Mustan Tank Cross Lane.	Mr. Hadji Lal Mahomed.	A four storied dwelling house.	About 25 years old.	14-6-94...	Wooden frame work in the rear wall was rotten.	Rear portion from top to bottom.	Nil.	Nil.	About Rs.1,000	...	...	Notice No. 44, under Section 354, was served on 17-6-94, to remove other ruinous portions which was done partly by the owner and partly by this Department.
5	G	513	Worli Koliwada.	Mr. Haji Bhanji.	An open firewood shed.	About 15 years old.	19-6-94...	Accident.....	The whole shed ...	Nil.	Nil.	About Rs. 200	...	...	

No. 8162 OF 1894-95. BOMBAY, 23*rd July* 1894.

Forwarded to the Municipal Commissioner for information. M. C. MURZBAN, F.R.I.B.A., A.M.C.I.E., Ex. Engr.

No. 9655 OF 25-7-94.

Forwarded to the Standing Committee for information. H. A. ACWORTH, Commissioner.

No. 4698. *Resolved*: "That the following be printed and circulated and brought on for consideration next week. Memorandum to the Secretary, No. 9826, dated 27th July 1894, from the Commissioner, forwarding report of the working of the Goculdas Tejpal Hospital for the year 1893."

No. 4699. *Resolved*: "That the following be circulated to the Committee:—Memorandum No. 9915, dated 28th July 1894, from the Commissioner, forwarding summary, prepared by the Water Engineer, of properties supplied on meter measurement, with payment made for water so supplied, and amount of tax at 4 per cent. on assessed value of the same for the year 1893 (January to December), asked for by the Standing Committee in para. 2 of their Resolution No. 10594, dated 17th January 1894."

No. 4700. *Resolved*: "That, with reference to further letter, dated 23rd ultimo, from Hadji Habib Mahomed and other wood-dealers, the Standing Committee are of opinion that no notice should be taken of this or of any further communication to the same effect which the petitioners may send in, as they have been repeatedly informed that the Corporation cannot exempt the petitioners from payment of taxes and fees due by them."

The following statement † was laid on the table:—

Statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes, for the week ending 29th July 1894.

Read letter to the Secretary, dated this day, as under:—

SIR,—Kindly place the following letter before the Committee this afternoon.

With reference to the discussion in the Standing Committee on Wednesday last, regarding the selection of a site for the proposed market at Currey Road, I beg to state that I have a plot of ground raised above the road level in the vicinity of the proposed site, and that I am willing to sell it at a much cheaper

† *See* Appendix B.

rate than is offered for the site recommended by the Commissioner. I may also add that my ground is much nearer to the place where the bazaar meets at present than the site recommended by the Commissioner. My ground measures nearly 1,815 square yards, the plan of which is herewith attached. I am willing to sell it at Rs. 4 per yard. My agent, Mr. Vishnu B. Panvalkar, will point out the site and negotiate the terms if so desired by the Committee or the Commissioner.—I beg, &c.,

HAJI GUNI HAJI OOSMAN.

No. 4701. "That the following be referred to the Sub-Committee appointed by the Standing Committee to enquire into and report as to whether a suitable plot can be purchased at a cheaper rate for the proposed market at Currey Road :—

Letter to the Secretary, dated this day, from Hadji Guni Hadji Usman, offering to sell to the Municipality 1,815 square yards of his reclaimed ground in DeLisle Road, as site for the proposed new market, at the rate of Rs. 4 per yard."

BOMBAY, *8th August* 1894.

AT the meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, ESQ.; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L. M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPTAIN W. P. WALSHE;

H. A. ACWORTH, ESQ., I.C.S., Commissioner; and the SECRETARY.

The minutes of the meeting held on the 1st instant, were signed.

No. 5210. The seal of the Corporation was affixed to deed of contract with Messrs. Tata and Sons, for the supply of 100 tons Japanese coal, at Rs. 15-8-0 per ton, plus half per cent. for office terms, delivered at Love Grove Pumping Station.

No. 5211. *Resolved*: "That, as applied for by the Commissioner, in his memoranda Nos. 10265, 10266, 10267, and 10268, dated 2nd instant, and

No. 10430, dated 4th idem, sanction be given under section 351 (2) of Municipal Act, to the removal of the following structures built without permission :—

Names of owners.	Where.
Mr. Kalicharam Bindaprassad...	Building at No. 3 A, Belvedere Hill Road.
Mr. Hemraj Hari.....	Privy at DeLisle Road.
Mr. Dacla Mahmod	Shed at No. 68, First Pathan Street.
Bai Dhaucorbai, widow of Mohandas Bawa.	Sheds at Khetwadi Back Road.
Mr. Noorbhoy Premji	Building at Mahim Bazar Road."

Read letter No. 10312, dated 2nd instant, from the Commissioner to the Secretary as under :—

SIR,—I have the honour to forward, for the information of the Standing Committee and Corporation, a certificate, accompanied by a tracing from the Executive and Water Engineers, to the fact that the Tansa main on siphon line No. 6 is imperilled, and to say that I have under section 64 (3) (*c*) of the Act sanctioned the work stated to be necessary for the stability of the main and roughly estimated to cost Rs. 30,000 being proceeded with at once. I have directed that detailed estimates for this and for any other work which may be deemed necessary (though less emergent) for the safety of the main should be submitted, as soon as possible, with a full report on the subject.

2. On Monday last, 30th ultimo, I visited the locality in question with Messrs. Murzban and Tomlinson. The recent floods, which as will be readily gathered, are the cause of the emergency, have so sapped and damaged the bank on which the main is placed north of Kasheli, that the pipes have over a length of nearly a mile sunk and turned over, in some cases for more than 20", so that they now rest on the very edge of an unstable bank which is still apparently slipping under them. When it is borne in mind that the weight of each pipe, when filled with water, is not much less than 6 tons, it may be imagined what a risk this state of things represents, and it appears to me to be certain that unless instant steps are taken to secure the bank the main will collapse and topple over it. This contingency would not only involve an enormous expenditure to remedy, but would also involve the stoppage of the Tansa supply for weeks, probably for months. Under these circumstances I have had no alternative but to exercise the emergency powers vested in me by the section above referred to.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 10412 OF *3rd August* 1894.

Copy forwarded to the Standing Committee for information.

H. A. ACWORTH, Commissioner.

We certify that in our opinion the embankment of the Tansa 48" main at Kasheli from about mile 30 to mile 31 is in such a condition that the safety of the main is imperilled, and that work for the strengthening of the bank should therefore be undertaken immediately. The approximate cost of the work required is estimated at about Rs. 30,000.

We agree that the bank should be strengthened by the addition of rubble stone about 3 feet thick with walled face, as shown on the accompanying typical section. The remainder of the burrow pits to be refilled with sweet earth, so as to prevent the toe of the embankment from being exposed to the wash of the tidal-water.

M. C. MURZBAN, Executive Engineer.
S. TOMLINSON, M. INST. C.E., Water Engineer.

1*st August* 1894.

Resolved : "That the Commissioner's memorandum, No. 10412, dated 3rd instant, be forwarded to the Corporation, with the recommendation that sanction be given to the expenditure of Rs. 30,000, from Surplus Cash Balance, for the cost of repairing the embankment of the Tansa water main on siphon line No. 6, injured by the late rains.

No. 5212.

"That the Standing Committee will await the receipt of detailed estimates and report from the Commissioner before deciding on further action."

Resolved: "That, as applied for by the Commissioner, in his letter No. 10605, dated 7th instant, sanction be given to the work of repairing and strengthening the bank of the Tansa water main on siphon line No. 6, north of Kasheli, roughly estimated to cost Rs. 30,000, being entrusted to Messrs. Littlewood, Pallonji & Co., the contractors, for widening the embankment near the bridges at Kasheli, and that their contract be varied so as to allow of their being paid at the rate of Rs. 12 per 100 cubic feet, for all work done on the repair of the said siphon line up to 31st October 1894.

No. 5213.

"That, under the terms of section 72 (3) of the Municipal Act, sanction be given to the dispensing with the invitation for tenders for strengthening the bank which would otherwise be necessary, as the work was too urgent to allow of time for calling for tenders, and as there was no probability of a lower rate being obtained."

Resolved : "That the following be *recorded* :—Memo-
No. 5214. randum No. 10473, dated 4th instant, from the Commissioner, forwarding letter to himself, No. 1942, dated 3rd idem, from the Acting Chief Accountant, reporting that 4 per cent. Government paper for Rs. 1,00,000, belonging to the 23¼ Lakhs Loan deposit account, was sold on the 1st instant, at 102¾ per cent. against the cost price of 103¾ per cent."

Read letter No. 10590, dated 6th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to report, for the information of the Corporation, special measures taken with the sanction of Government, under section 434 of the Municipal Act, in view of the outbreak of cholera at the J. J. Hospital, and the risk of a spread of the disease into adjacent quarters of the City.

2. I received a communication yesterday about 2 p.m., from the Commissioner of Police, in consequence of which after ascertaining by telephone that, Dr. Weir was not at home, and could not be communicated with, I sent an urgent telegram to Government, asking sanction to prohibit the Nag Panchmi Fair, which takes place to-day, and which attracts large numbers of people to the vicinity of the hospital. I received an answer this morning at 6-30 a.m. I annex copies of my telegram and this reply, as well as of a further telegram received from Government at 11 a.m. to-day. At 9 p.m. last night, however, I received an answer from Dr. Weir saying that he did not think it necessary to stop the fair, and I have determined therefore not to do so. I have been this morning in consultation with Dr. Weir, and he has advised and asked immediate sanction to the employment of the following scavenging staff :—

1	Sub-Inspector on Rs. 50	50
30	Men on Rs. 9 each.....	270
10	Women on Rs. 6 „	60
		Rs. 380

The authorities at the J. J. Hospital have asked for assistance from the Health Department in drain and other cleaning, and as the resources of the Department are temporarily overtasked, the additional staff mentioned above is urgently necessary. I have, therefore, sanctioned it. The cost may be met from Surplus Cash Balance, and a report will be made as soon as it is possible to discontinue it.

The state of the Surplus Cash Balances is as under :—

Estimated surplus in excess of what has already been appropriated in the budget for 1894-95	Rs. 3,50,000 0 0	
Out of which expenditure (excluding temporary advances to be adjusted hereafter) has been sanctioned to the extent of	Rs. 1,09,555 12 6	
Expenditure recommended for sanction	Rs. 39,174 0 0	1,48,729 12 6
Available		Rs. 2,01,270 3 6

I have, &c.,
H. A. ACWORTH, Commissioner.

To POONA.

To THE CHIEF SECRETARY TO GOVERNMENT.

Private—Urgent.

Cholera bad Jamsetjee Hospital danger spreading Nag Punchmi Fair to-morrow all round Hospital please sanction stopping it under section 434 Municipal Act. Vincent suggests this.

H. A. ACWORTH, Commissioner.

5th August 1894.

FROM POONA.

To MUNICIPAL COMMISSIONER.

Government sanction your taking such special measures and by notice prescribing such temporary regulations to be observed by public or any other class of persons including stoppage of fair near Hospital as you deem necessary to prevent spread of cholera you should report forthwith to Corporation measures taken and regulations prescribed by you.

5th August 1894.

FROM POONA.

To THE MUNICIPAL COMMISSIONER.

If you think it necessary to stop fair elsewhere than near Hospital Government will sanction any such special measures on your writing further.

5th August 1894.

"That, letter No. $\frac{A}{10590}$, dated 6th instant, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the temporary employment of the following establishment consequent on the recent outbreak of cholera at the J. J. Hospital; and the risk of the outbreak affecting other parts of the City.

No. 5215.

		Rs.	
1	Sub-Inspector on Rs. 50	50	a month
30	Men on Rs. 9 each	270	„
10	Women on Rs. 6 each	60	„
	Total monthly cost...	Rs. 380	

"The amount to be met from Surplus Cash Balance.

"That Government be asked to pay such portion of these charges as is incurred for work done within the compound of the Hospital."

Resolved: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 10602, dated 6th instant, sanction be given, under the terms of section 184 (1) of the Civil Leave Code, of a charge allowance of Rs. 80 per mensem being paid to Mr. James W. Smith Special Drainage Engineer, while in charge of the duties of the Drainage Engineer during the absence on leave of Mr. C. C. James."

No. 5216.

Resolved: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 10601, dated 6th instant, sanction be given, under section 69 (*e*) of the Municipal Act, to the variation of contract with Messrs. John Fleming and Company, for the supply of stoneware pipes, &c., required for drainage works, whereby the period of the contract shall be extended, from 15th January to 12th July 1894."

No. 5217.

Resolved: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 10516, dated 4th instant, sanction be given to the acceptance by him, of the tender of Messrs. Gangaram

No. 5218.

Lakshman and Co., the lowest of 4 tenders received, for constructing a Fire Brigade station for Manual Engine at Naigam Tank Road, Dadar, at rates aggregating Rs. 6,922-12-7, *plus* Rs. 746, for cost of contingencies and establishment,—Total Rs. 7,668-12-7. The amount to be debited to the provision of Rs. 8,208, included in the 4½ lakhs loan for the construction of Fire Brigade Quarters and Stations."

No. 5219. *Resolved* : "That, as applied for by the Commissioner, in his letter to the Secretary, No. 10299, dated 2nd instant, sanction be given to the purchase, from Messrs. Bradbury, Brady and Co., of dermatine valve faces, weighing 1,050 lbs. at Rs. 3-12-0 per lb. required for the pumps at Love Grove Pumping Station, deliverable at the station. The cost, Rs. 3,937-8-0, to be met from the grant for contingencies for the said station.

"That under section 72 (3) of the Municipal Act, the Committee dispense with the invitation for tenders which would otherwise be necessary, as Messrs. Bradbury, Brady and Co. are the sole agents in Bombay for the articles in question."

No. 5220. *Resolved* : "That the following be *recorded*:—Letter to the Secretary, No. 10260, dated 2nd instant, from the Commissioner, reporting, as required by section 92 (*a*) of the Municipal Act, that he has sold to Mr. Rama Isram, by public auction, the right (1) of tapping 30 cocoanut trees in the compound of the Ward Office at Gowalia Tank Road, and (2) of collecting fruit therefrom, from 1st instant to 31st July 1895, for Rs. 45."*

No. 5221. *Resolved*: "That the following be *recorded*:—Letter to the Secretary, No. 10207, dated 1st instant, from the Commissioner, reporting that he has sanctioned the purchase, from Messrs. P. Nasarwanji & Co., of 200 tons Calcutta coal, Barakpur and Raniganj mixed, for the steam rollers and the incinerator, at the Municipal Workshops, at Rs. 13-12-0 per ton, deliverable at the Workshops ; total cost, Rs. 2,750."

* The sale realized the same amount last year.

Resolved (with 2 dissentients) : "That, as applied for by the Commissioner, in his memorandum to the Secretary, No. 10263, dated 2nd instant, sanction be given to the payment to the proprietor of the *Bombay Gazette*, of Rs. 5, being the amount of bhatta charged for night work in printing certain work urgently required for circulation to the Corporation.

No. 5222.

"That, when in the opinion of the Commissioner it is absolutely necessary in future to have printing work executed at night time, bhatta charges for such work be sanctioned."

Resolved : "That, as applied for by the Commissioner, in his letter to the Secretary, No. 10226, dated 1st instant, sanction be given under sections 211 and 517 (1) (*j*) of the Municipal Act, to the filing of a suit, in the Court of Small Causes, against Messrs. Framji Edalji Sonavala, Bezonji Edalji Sonavala, Bomanji Edalji Sonavala, and Jehangir Edalji Sonavala, the trustees of the estates of Mr. Edalji Rastamji Sonavala, for the recovery of Rs. 306-8-0, being the amount of property, taxes, and notice fees due in respect of house, D Ward, No. 1829, for the period of 1st half of 1891-92 to 2nd half of 1893-94."

No. 5223.

Considered letter No. 10178, dated 31st ultimo, from the Commissioner to the Secretary, as under :—

SIR,—I have received an offer, for the Victoria Gardens, of a wild ass from the Runn of Cutch, to cost Rs. 200. I beg to suggest that, as there seems no probability of the proposal made in my No. 18081 of 2nd December 1893 being carried out, a portion of the lawn behind the refreshment-room be enclosed, and a shed built there for this animal. The cost, as per the enclosed estimate, will be Rs. 1,463, and can be met from the balance of the Garden Fund.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : "That letter to the Secretary, No. 10178, dated 31st ultimo, from the Commissioner, be forwarded to the Corporation, with the recommendation that sanction be given to the expendi-

No. 5224.

ture of Rs. 1,463, from the balance of the Garden Fund, to meet the cost of constructing an enclosure and a shed in the Victoria Gardens for a wild Ass from the Runn of Cutch."

No. 5225.

Resolved: "That the following be *recorded*:—Memorandum No. 10429, dated 4th instant, from the Commissioner, reporting, with reference to the Standing Committee's Resolution No. 4484, dated 3rd October 1888, the transfers to the Municipal General Fund pass book, on the 26th July 1894, of Rs. 14,751-1-0, *viz.*, (*a*) of Rs. 3,333-4-0, from the Municipal Building Loan Deposit Account; (*b*) of Rs. 1,478-1-0, from the 4½ Lakhs Fire Brigade Loan Deposit Account; (*c*) of Rs. 9,939-12-0, from the Surplus Cash Deposit Account. Also reporting, with reference to the Committee's Resolution No. 5620, dated 9th January 1889, the transfers, on the 25th July 1894, of Rs 4,000, *viz.*, of Rs. 500 from the Surplus Cash Deposit Account, to the worn-out mains renewal fund deposit account 5 per cent. Tansa Loan Debenture; and (*c*) of Rs. 3,500, from the Surplus Cash Deposit Account, to the net premia, &c., on different Municipal Loans Deposit Account 5 per cent. Tansa Loan Debentures." *

Considered letter No. 10479, dated 4th instant, from the Commissioner to the Secretary, as under:—

SIR,—In my letter No. 17788, of 29th November 1893, to the Standing Committee and Corporation, I made certain proposals

* The Acting Chief Accountant reports to the Commissioner that the balances remaining to the Credit of the above deposit account, after effecting the transfers now reported, stand as under:—

(*a*)	In 5 per cent. Municipal Debenture for	Rs.	1,33,500 = Rs.	1,33,500	0 0
(*b*)	In 4 per cent. do. do.	,,	74,000 = ,,	74,000	0 0
	In 4 per cent. Government Paper for	,,	1,88,000 = ,,	1,97,987	8 0
			Rs.	2,71,987	8 0
(*c*)	In 5 per cent. Municipal Debentures for	Rs.	18,37 000 = Rs.	18,37,000	0 0
	In 4 per cent. do. do.	,,	84,000 = ,,	84,000	0 0
	In 4 per cent. Government Paper for	,,	3,63,500 = ,,	3,78,592	3 0
			Rs.	22,99,592	3 0

with regard to balances of Drainage Loans, among which were the following, which were described as urgent :—

B.—DRAINAGE OF FORT, DEBITABLE TO SAVINGS OF Rs. 50,535-0-9 ON FORT DRAINAGE WORKS.

Catch-pits on pipe sewers	Rs.	8,900
Do. on branch drains	„	1,100
	Rs.	10,000

C.—QUEEN'S ROAD HOUSE SULLAGE WATER CONNECTION LOAN.

Catch-pits on pipe sewers	Rs.	3,740
Do. on branch drains	„	6,430
Connecting wells, fountains, &c. ...	„	3,830
	Rs.	14,000

E.—AGRIPADA HOUSE SULLAGE WATER CONNECTIONS.

Catch-pits on pipe sewers	Rs.	1,854
House connections	„	4,873
Vent-shafts	„	2,573
	Rs.	9,300

I have now the honour to forward estimates as under :—

FORT DRAINAGE.

Catch-pits on pipe sewers.....	Rs.	8,900
Do. on branch drains	„	1,097
	Rs.	9,997

or say, Rs. 10,000

QUEEN'S ROAD HOUSE SULLAGE WATER CONNECTIONS.

Connecting wells, fountains, &c. ...	Rs.	3,643
Catch-pits on pipe sewers	„	3,740
Do. on branch drains	„	6,425
	Rs.	13,808

AGRIPADA HOUSE SULLAGE WATER CONNECTIONS.

House connections	Rs.	4,160
Catch-pits on pipe sewers	„	1,854
	Rs.	6,014

The vent-shafts in Agripada forming part of the original estimate have been already sanctioned by me.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : "That the Commissioner's letter to the Secretary, No. 10479, dated 4th instant, be forwarded to the Corporation, with the recommendation that sanction be given to the expenditure of Rs. 29,819, as per margin, from savings on the sanctioned grant for the respective works amounting to Rs. 3,03,423."

No. 5226.

FORT DRAINAGE.

Catch-pits on pipe sewers	Rs.	8,900
,, on branch drains	,,	1,097
	Rs.	9,997
or say, Rs. 10,000		

QUEEN'S ROAD HOUSE SULLAGE WATER CONNECTIONS.

Connecting wells, fountains, &c.	Rs.	3 643
Catch-pits on pipe sewers	,,	3,740
Do. on branch drains	,,	6,425
	Rs.	13,808

AGRIPADA HOUSE SULLAGE WATER CONNECTIONS.

House connections	Rs.	4,160
Catch-pits on pipe sewers	,,	1,854
	Rs.	6,014

Resolved : "That, as applied for by the Commissioner, in his memorandum to the Secretary, No. 10431, dated 4th instant, sanction be given to Bai Jinabai, widow of Shekh Jabar Shekh Ebrahim, being allowed to retain, on the following conditions, the works executed, within the regular line of street, in front of her house at No. 52, Huzria Street, viz. : (*a*) That the land required for the street improvement be sold to the Municipality at the rate of Rs. 7 per square yard, minus the capitalized amount of ground rent, if any, payable either to Government or the Fazandar as the case may be, calculated at 25 years' purchase. (*b*) That the Municipality lease the ground to Bai Jinabai at an annual rent to be paid by her to the Municipality, in advance, calculated at 6 per cent. on the total amount paid to her by the Municipality for the absolute purchase of the land, the said rent to be paid by her until such time as either of the houses on each side of her property becomes liable to be set back. (*c*) That she pays the cost of stamping and registering the agreement. (*d*) That when either house adjoining her property becomes liable to be set back she shall remove the superstructure which she has built over her land within the regular line of the street, and make over such land to the Municipality clear of all encumbrances."

No. 5227.

Resolved: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 10416, dated 3rd instant, and under Regulation 14 of the new Pension Regulations, sanction be given to the payment of a monthly pension of Rs. 50 to Mr. Ramkrishna Narayan, late Record-keeper, Executive Engineer's Department, from 11th June 1894."

No. 5228.

Considered letter No. 10643, dated 7th instant, from the Commissioner to the Secretary, as under :—

SIR,—With reference to the grant of Rs. 6,500 for contingencies for the Water Works Department, sanctioned in the budget for the current year, page 42, I have the honour to forward a statement showing the details of charges amounting to Rs. 10,392, which will have to be paid during the year, and to request the Standing Committee and the Corporation to sanction an additional grant of Rs. 3,750, from Surplus Cash Balance, to meet the expenditure up to the end of the year. Of this excess of Rs. 3,750, Rs. 1,038-4-8 are on account of arrears of quit rent and Local Fund Cess paid in respect of the Tulsi Village from January 1883, the dispute with Mr. Ahmedbhai Habibbhai having only recently been settled. The statement has been considered both by the Water Engineer and the Executive Engineer, and they do not see their way to cut down the expenditure. In the budget estimate for the current year, submitted by me to the Standing Committee, I had entered Rs. 8,000 under the heading "Water Works Contingencies," with a remark that the increase was provided for additional charges on account of the Tansa Works, but it was reduced by the Standing Committee to Rs. 6,500. The actual expenditure for 1893-94 was Rs. 8,054-4-9, out of which Rs. 6,500 were debited to the budget grant, and Rs. 1,554-4-9 were met by a transfer. The actuals for 1892-93 amounted to Rs. 8,463-15-6. The state of the Surplus Cash Balance is as under:—

Estimated surplus in excess of what has already been appropriated in the budget for 1894-95...Rs.				3,50,000	0 0
Out of which expenditure (excluding temporary advances to be adjusted hereafter) has been sanctioned to the extent of ...Rs.	1,09,555	12	6		
Expenditure recommended for sanction.....Rs.	5,424	0	0		
				1,14,979	12 6
Available Rs.				2,35,020	3 6

I have, &c., H. A. ACWORTH, Commissioner.

	PARTICULARS.	Estimates for 1894-95. Rs. a. p.	REMARKS.
A...	Government taxes and Local Fund on land at Vehar and allowance to the Patel of Tulsi	236 13 11	Payable on demand every year.
B...	Telephone, Chinchpokli	740 0 0	As per Government terms sanctioned by the Corporation.
C...	Do. Bhandup	900 0 0	
D...	Road Repairs over trenches opened by Water Works Department	1,200 0 0	
E...	Tansa Postman	120 0 0	As sanctioned by the Corporation.
F...	Rent of rooms at Bhendy Bazar for sluicemen	192 0 0	As per existing tenancy.
G...	Travelling expenses by the Water Engineer	100 0 0	
H...	Do. by clerks, peons, and workmen out of Bombay on bursts, &c. ...	100 0 0	
I...	General Cart and Tonga hire and Railway and other charges for taking stores on Tansa line and elsewhere	1,200 0 0	
J...	Clothing to Sub-Inspectors and umbrellas to peons	1,700 0 0	
K...	Miscellaneous charges	1,500 0 0	
L...	Hire of Municipal Pumping Engines	500 0 0	For works at bursts at sanctioned rates.
M...	Destroying crocodiles and their eggs	50 0 0	
N...	Stamping Meter Bonds...	150 0 0	
O...	Municipal taxes on buildings in charge of Water Works Department ...	110 0 0	
P...	Government taxes and Local Fund on land at Tulsi	1,038 4 8	
Q...	Cost of removing fountain from Mumbadevi and re-erecting it at the Junction of Carnac and Hornby Roads...	555 0 0	
	Total...Rs.	10,392 2 7	
	Deduct—		
	Grant for Contingencies, Water Works Department, for 1894-95 ...Rs. 6,500		
	Cost of Telephone connections with the Water Engineer's bungalow „ 160		
		6,660 0 0	
	Say Rs....	3,732 2 7	
		3,750 0 0	

Resolved : "That letter No. 10643, dated 7th instant, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to an additional grant of Rs. 3,750, from Surplus Cash Balance, to meet the additional expenditure up to the end of the year, on account of contingencies, Water Works Department."

No. 5229.

Proposed by Cowasjee Hormusjee, Esq., seconded by Kaikhosro N. Kabraji, Esq.—

"That the consideration of the following be postponed until the Executive Engineer has reported, through the Commissioner, as to whether the building has been completed, and under what circumstances it was allowed to be proceeded with :—'Letter to the Secretary, No. 10246, dated 1st instant, from the Commissioner, reporting on letter, dated 10th ultimo, from Mr. Vali Peer Mohomed, protesting against the set-back of his house at Nos. 49-53, Chukla Street.'"

No. 5230.

Carried.

Proposed by the Hon'ble Mr. Javerilal U. Yajnik, seconded by Accacio G. Viegas, Esq.—

"That the following be transferred to the list of outstanding business :—'Letter to the Secretary, No. 10255, dated 2nd instant, from the Commissioner, forwarding Reports (1) from the Water Engineer, No. $\frac{W}{2712}$, dated 28th April 1893, and (2) from the Executive Engineer, No. 12905, dated 20th December 1893, on the subject of charging by meter measurement for all water supplied throughout the city, instead of as at present charging on the valuation of premises, except in special cases, irrespective of the amount of water consumed thereon.'"

No. 5231.

Carried.

Resolved : "That the consideration of the report of the working of the Gokaldas Tejpal Hospital, for the year 1893, be postponed for a fortnight."

No. 5232.

Resolved : "That the following be referred to the Sub-Committee appointed to report on the question of the proposed new market :—Peti-

No. 5233.

tion to the Corporation, dated 28th ultimo, from inhabitants of DeLisle and other adjoining roads, objecting to the proposed erection of a market at Currey Road, and stating that a site, near the Elphinstone Road level crossings, would be more convenient to the public."

Resolved: "That the following be *recorded*:—Memo-
No. 5234. randum to the Secretary, No. 10362, dated 3rd instant, from the Commissioner, forwarding analyses, by the Health Officer, of the Vehar, Tulsi and Tansa waters for the current month as under :—

Sample of unfiltered Tulsi water taken from the inlet well of the Malabar Hill Reservoir, on the 27th July 1894.

	Parts per million.
Free Ammonia	·04
Albuminoid Ammonia	·16

Sample of filtered Tulsi water taken from syphon well (No. 1 Filter) of the Malabar Hill Reservoir, on the 27th July 1894.

	Parts per million.
Free Ammonia	·03
Albuminoid Ammonia	·13

Sample of unfiltered Vehar water taken from the inlet channel of the Bhandarwada Reservoir, on the 27th July 1894.

	Parts per million.
Free Ammonia	·03
Albuminoid Ammonia	·11

Sample of filtered Vehar water taken from filter channel of the Bhandarwada Reservoir, on the 27th July 1894.

	Parts per million.
Free Ammonia	·04
Albuminoid Ammonia	·09

Sample of Tansa water drawn from an hydrant on the 27" Main in Arthur Road, on the 27th July 1894.

	Parts per million.
Free Ammonia	·01
Albuminoid Ammonia	·07

Resolved: "That, as applied for by the Commissioner,
No. 5235. in his memorandum No. 10734, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith.

The following statement † was laid on the table:—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 5th August 1894.

† *See* Appendix B.

Resolved: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 10716, dated this day, sanction be given, under section 92 (*b*) of the Municipal Act, to the acceptance by him of the offer of Mr. Jivaji Saloobhai of Rs. 825 for the materials of the buildings acquired in connection with the improvement of the Matharpakhady Road."

No. 5236.

Resolved: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 10728, dated this day, sanction be given, under section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. John Fleming and Co. for the supply of 40 hydrants, whereby an advance of Rs. 1,000 shall be made to them at once.

No. 5237.

BOMBAY, 15*th August* 1894.

AT the meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, Esq., *Chairman*.

BHALCHANDRA KRISHNA BHATAWADEKAR, Esq., L.M.; COWASJEE HORMUSJEE, Esq., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, Esq.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, Esq.; K. M. SHROFF, Esq.; S. REBSCH, Esq., Assoc. M.I.C.E.; ACCACIO G. VIEGAS, Esq., L.M. & S.; R. H. VINCENT, Esq., C.I.E.; CAPTAIN W. P. WALSHE.

H. A. ACWORTH, Esq., I.C.S., Commissioner; and the SECRETARY.

The minutes of the meeting held on the 8th instant were signed.

The seal of the Corporation was affixed to deed of contract with Mr. Shankerrao Baba Mandrupkar, for the supply of oval-shaped enamelled iron plates with house numbers.

No. 5409.

Resolved: "That, as applied for by the Commissioner, in his Memoranda Nos. 10880 and 10952, dated 10th and 11th instant, sanction be given, under section 351 (2) of the Municipal Act, to the removal of the following structures built without permission :—

No. 5410.

Names of owners.	Where.
Bai Muktabai Gowlan.....	Sheds at Khetwady 4th Lane.
Mr. Bhagwan Jiva Bhut.....	Shed at Warden Road."

Resolved: "That, as applied for by the Commissioner, in his Memorandum No. 11256, dated this day, sanction be given to the cutting off of water connections, as per list submitted therewith."

No. 5411.

Resolved: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 11130, dated 13th instant, and under regulation 22 of the new Pension Regulations, sanction be given to the payment of Rs. 120, as compassionate allowance, to Anandibai, widow of Govind Ratna, late peon in the Assessment Department.

No. 5412.

"That, as the grant for Pensions and Gratuities will not bear this charge, the Corporation be recommended to sanction the payment of the Rs. 120 from Surplus Cash Balance."

Resolved: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 11131, dated 13th instant, and under regulation 22 of the new Pension Regulations, sanction be given to the payment of Rs. 120, as compassionate allowance, to Jooloo, daughter of Rahimbux Moula, late peon in the Assessment Department.

No. 5413.

"That, as the grant for Pensions and Gratuities will not bear this charge, the Corporation be recommended to sanction the payment of the Rs. 120 from Surplus Cash Balance."

Resolved: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 11132, dated 13th instant, and under regulation 15 (*b*) of the new Pension Regulations, sanction be given to a monthly pension, not exceeding Rs. 4-2-8, being paid to Abdool Cadarali, peon in the Assessment Department, from 7th March last.

No. 5414.

"That, as the grant for Pensions and Gratuities will not bear this charge, the Corporation be recommended to sanction the grant of Rs. 50, from Surplus Cash Balance, to meet the pension as above up to the end of the current financial year."

Resolved: "That, as applied for by the Commissioner, in his letter No. 11103, dated 13th instant, to the Secretary, and with reference to the

No. 5415.

Committee's Resolution No. 7328, dated 1st November 1893, sanctioning the purchase of stoneware pipes for the Umburkhadi sewerage works, from Messrs. Richardson & Cruddas, sanction be now given to the addition of 5 per cent. import duty, amounting to Rs. 1,394-0-9, to the bills, of the three remaining instalments of pipes to be supplied by Messrs. Richardson & Cruddas, such additional 5 per cent. being payable, under the terms of section 10 of Act 8 of 1894, of the Government of India (Indian Tariff Act), the amount so payable being charged to 'Contingencies' for the works."

No. 5416. *Resolved*: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 11102, dated 13th instant, and with reference to the Committee's Resolution No. 4418, dated 25th July 1894, sanction be given, under section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. Spencer and Co. for the work of paving and V-draining the van siding behind the Bandora Slaughter Houses, whereby the period for the completion of the work shall be further extended to the 15th instant."

No. 5417. *Resolved*: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 11000, dated 11th instant, and with reference to the Resolution of the Committee, No. 3416, dated 27th June last, sanction be given, under section 69 (*e*) of the Municipal Act, to the variation of the contract with Mr. Devram Keshavji for the construction of Sheep and Goat Market at DeLisle Road, whereby the period for the completion of the work shall be further extended to 31st instant."

No. 5418. *Resolved*: "That the following be *recorded*:—'Letter No. 11001, dated 11th instant, from the Commissioner to the Secretary, reporting, with reference to the Committee's Resolution No. 11960, dated 7th February last, that the amount of contract entered into with Messrs. John Fleming & Co., for the supply of 1,000 solid steel pickaxes, comes to Rs. 1,734-7-6, including Rs. 67-12-10, on account of Import Duty, under the Tariff Act.'"

Resolved: "That, as applied for by the Commissioner, in his memorandum to the Secretary, No. 10964, dated 11th instant, sanction be given to Mr. Kurmali Peer Mahomed being allowed to retain, on the following conditions, the works executed within the regular line of the Street at his house No. 560, Dongri Street, *viz.*: (*a*) That the land required from him for the Street improvement, admeasuring 10·86 square yards, or thereabout, shown in yellow colour on the plan marked 'A,' dated this day, and filed in 'Supplement to Minute Books,' be sold to the Municipality at the rate of Rs. 45 per square yard, *minus* the capitalized amount of ground rent, if any, payable either to Government or the Fazindar as the case may be, calculated at 25 years' purchase. (*b*) That the Municipality lease the 10·86 yards to Mr. Kurmali Peer Mahomed, at an annual rent to be paid by him to the Municipality in advance, calculated at 6 per cent. on the total amount paid to him by the Municipality for the absolute purchase of the land, the said rent to be paid by him until such time as either of the houses on each side of his property becomes liable to be set-back. (*c*) That he pays the cost of stamping and registering the agreement. (*d*) That when either house adjoining his property becomes liable to be set-back he shall remove the superstructure which he has built over his land within the regular line of the street, and make over the said 10·86 yards, or thereabout, to the Municipality, clear of all encumbrances."

No. 5419.

Resolved: "That the following be *recorded*:—'Letter No. 10901, dated 10th instant, from the Commissioner to the Secretary, reporting that he has sanctioned the purchase of two tidal flaps with lifting gear, &c., required for the Umburkhadi ovoid sewer, from Messrs. Richardson & Cruddas, at a cost of Rs. 724. The amount to be paid out of the sum of Rs. 850 provided for these flaps in the sanctioned estimate.'"

No. 5420.

Resolved: "That the following be *recorded*:—'Letter No. 10915, dated 10th instant, from the Commissioner to the Secretary, reporting

No. 5421.

that he has sold, by public auction, the right to cut grass on ground occupied by the Engineer's Department adjacent to the Technical Institute, at Chinchpokli, to one Krishni Jadwin for Rs. 13, from 6th July to 31st October 1894.' "*

No. 5422. *Resolved* : "That the following be *recorded* :—'Memorandum No. 10878, dated 10th instant, from the Commissioner, reporting, with reference to the Standing Committee's Resolution No. 4484, dated 3rd October 1888, the transfer on the 3rd instant of Rs. 1,00,000, from the 23¼ Lakhs Loan Deposit Account, to the Municipal General Fund pass book.' "†

No. 5423. *Resolved:* "That the following Sub-Committee be appointed to consider and report on the question of fixing exchange regarding works or supplies which are contracted for in sterling :—

"The Chairman, the Hon'ble Mr. Fazulbhoy Visram; the Hon'ble Mr. Javerilal U. Yajnik ; Mr. Hurkisondas Nurrotumdas ; Captain W. P. Walshe ; and Mr. Cowasjee Hormusjee."

No. 5424. *Resolved* : "That the following be forwarded to the Commissioner for report :—'Application to the Corporation, dated 7th instant, from Mr. Becherdas Morlidhur, on the subject of the drainage of his property No. 141 at Agripada.' "

No. 5425. *Resolved* : "That the following be referred to the Commissioner for report :—'Letter, dated 9th instant, addressed to the President of the Corporation, from Mr. Soobhrao Anandrao, on the subject of license fee for the sale of oil at his shop at Thakurdwar.' "

No. 5426. *Resolved* : "That the following be referred to the Commissioner for favour of report :—'Petitions, dated 13th instant, from Messrs.

* The right was sold for the first time this year.

† The Acting Chief Accountant reports to the Commissioner that the balance remaining to the credit of the above Deposit Account, after effecting the transfer now reported, stands as under :—

In 4 per cent. Government Paper for Rs. 4,88,000=Rs.	5,08,419	13	6
Cash ... ... ,,	7,900	2	4
Rs.	5,16,319	15	10

Fakirjee Jamasjee Adajania, Rustomjee Dorabjee Unwala and others, addressed to the Standing Committee and Corporation, on the question of the cleaning and lighting of the private lane called Chundunwadi Street.' "

Read the following :—

No. 16622 OF 1894-5.

BOMBAY, 13*th August* 1894.

TO THE COMMISSIONER.

SIR,—I have the honour to report that there will be a great improvement in the health of the City this week as judged by the weekly mortality: the fatality during the last four days having greatly declined. This is very reassuring, and, I think, it will continue.—I have, &c.,

T. S. WEIR, Health Officer.

No. 11141 OF 14*th August* 1894.

Forwarded to the Standing Committee.

H. A. ACWORTH, Commissioner.

Resolved : "That memorandum No. 11141, dated 14th instant, from the Commissioner, forwarding report from the Health Officer, be *recorded.*

No. 5127.

Return of fires at Ramwadi, Kalbadevi Road, Telli Moholla (old Nagpada), Moogbhat, Hospital Lane, Wari Bunder, and Ali Oomer Street, forwarded with Commissioner's memoranda Nos. 10644 and 11055, dated 7th and 13th August 1894.*

The Commissioner having consulted the Committee on the question of the conversion of Government of India 4 per cent. paper, it was

Proposed by the Hon'ble Mr. Fazulbhoy Visram, seconded by K. M. Shroff, Esq.—

"That the Commissioner be authorized to convert the Rs. 13,06,500, in the 4 per cent. Government of India Loans of 1854-55 and 1st of May 1865, held by the Corporation into 3½ Government of India paper under the terms of the Government Notifications Nos. 4092 and 4093, dated Simla, 13th August 1894."

No. 5429.

Carried.

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* *See* Appendix C.

Resolved: "That the following be circulated and brought on for consideration at a future meeting:—'Memorandum No. 11,146, dated 14th instant, from the Commissioner to the Secretary, on the subject of the Water Works excesses.'"

No. 5430.

The following statement † was laid on the table:—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 12th August 1894.

BOMBAY, 22*nd August* 1894.

AT the meeting of the Standing Committee held this day, there were present:—

G. W. ROUGHTON, ESQ., *Chairman*.
BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIA-SHANKAR YAJNIK; KAIKHOSRO N. KABRAJI, ESQ.; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPTAIN W. P. WALSHE.
Surgeon-Lieut.-Col. T. S. WEIR, Acting Commissioner; and the SECRETARY.

The minutes of the meeting held on the 15th instant were signed.

Resolved: "That the following be *recorded*:—Government Resolution No. 3027, General Department, dated 13th August 1894, appointing Surgeon-Lieut.-Col. T. S. Weir, to act as Municipal Commissioner during Mr. Acworth's absence, on leave, or pending further orders."

No. 5609.

Resolved: "That the following be *recorded*:—Memorandum from the Acting Commissioner to the Standing Committee, No. 11391, dated 17th instant, forwarding copy of letter No. 11390, dated the same, addressed to Government, reporting having received charge of the office of Commissioner from Mr. Acworth."

No. 5610.

The seal of the Corporation was affixed to deeds of contract (1) with Messrs. P. Nasserwanji and Company for the supply of 200 tons of Calcutta coal; (2) with Messrs. Richardson and Cruddas for the supply of a pipe and bolt screwing machine; and (3) with Mr. Sha Mahomed Sherubhai for the supply of meat for animals in the Victoria Gardens.

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† See Appendix B.

Resolved : "That sanction be given to the cutting off of water connections as per list submitted, with the Commissioner's No. 11775, dated this day."

No. 5614.

Read letter from the Commissioner to the Secretary, No. 11255, dated 15th instant, requesting sanction to the payment to the Printing Contractor of 3½ per cent. on account of Import Duty on the amount of his bills for stationery used in connection with his contract as per Mr. Geary's letter, No. 1127, dated 26th ultimo, as follows :—

SIR,—With reference to your favour No. 7487 of 1894-95, I have the honour to forward herewith for your inspection vouchers of payments made for paper used for Municipal printing contract since March 10th, when the Import Duty was imposed, in every case the five per cent. duty has been paid by the contractor, inasmuch as all the papers belonging to merchants in the Customs godowns, although landed some time before, were made to pay duty. It would be almost impossible to keep a record in sufficient detail to show that a particular ream of paper used in the ordinary way of business since March 10th paid duty, but as a matter of fact it has done so in every case.

I would also remind you that the Import Duty has to be paid, not only on paper but also on ink and printing materials of all kind. Under these circumstances I think a *modus vivendi* might be arrived at by the payment on the part of the Municipality of three-and-a-half per cent. on the total of the work done since the imposition of the duty. I shall incur some loss by this arrangement. Owing to the fall of exchange to less than 1s. 1d., the English price of every imported article is enhanced, and all charges, packing, freight, insurance, &c., are included in the amount on which the duty is levied. Under these circumstances 3½ per cent. will not fully recoup me for the Tariff Duty which I have to pay. All the same as the arrangement suggested would be simple in its working and would avoid the possibility of correspondence or friction, I should be willing to accept it.—

I am, &c.,

GRATTAN GEARY,
per pro. GEO. C. PLINSTON,
Proprietor.

P. S.—By printing materials, I refer to brass rules, lead, antimony, tin, zinc, &c., &c.

Proposed by S. Rebsch, Esq., seconded by Bhalchandra K. Bhatawadekar, Esq.—

"That letter to the Secretary from the Commissioner, No. 11255, dated 15th instant, be referred back to the Acting Commissioner for

No. 5615.

favour of report as to the percentage the import duties bear to the total charges made by the contractor, the actuals of the past two months being taken as a basis of calculation, and that the Commissioner be requested to inform the Standing Committee what extra cost will be incurred by the Municipality in connection with the contract."

Carried.

Proposed by Hurkisondas Nurrotamdas, Esq., seconded by R. H. Vincent, Esq.—

"That, as applied for by the Commissioner in his memorandum No. 11472, dated 18th instant, and subject to the approval of the Corporation, under section 133 (2) of the Municipal Act, sanction be given to the transfer of Rs. 5,500, from savings in the grant for Halalkhor Branch, 10 C. Labour, to Infectious Diseases, as the grant provided in the budget has been found to be insufficient on account of the large number of patients treated in the hospital."

Amendment proposed by A. G. Viegas, Esq., seconded by Bhalchandra K. Bhatawadekar, Esq.—

"That, as applied for by the Commissioner in his memorandum No. 11472, dated 18th instant, and subject to the approval of the Corporation, under the terms of Section 133 (2) of the Municipal Act, sanction be given to the transfer of Rs. 5,500 from savings in the grant for Halalkhor branch, 10 C. Labour, to Infectious Diseases, as the grant provided in the Budget has been insufficient on account of the large number of patients treated in the hospital.

No. 5616.

"That a Sub-Committee consisting of the Honourable Mr Javerilal U. Yajnik, Dr. Cowasji Hormasji, Dr. Bhalchandra Krishna, and Dr. Viegas, be appointed to enquire into and report on the question of the cost of the hospital."

On a division, the *Amendment* was *carried* as a substantive proposition.

Resolved : "That, as applied for by the Commissioner's letter to the Secretary, No. 11218, dated 14th instant, sanction be given,

No. 5617.

under the New Pension Regulations, to Mr. Jamsetjee M. Doctor, Head Animal Keeper, Victoria Gardens, being allowed to contribute to the Pension Fund from the date of his appointment, *viz.*, 11th August 1893, subject to his furnishing certificate of physical fitness and of age."

Resolved : "That the following be *recorded* :—Memo-
No. 5618. randum No. 11241, dated 15th instant, from the Commissioner to the Secretary, reporting the sale on 10th idem of 4 per cent. Government Paper for Rs. 75,000, belonging to the 44 Lakhs, Sanitary Works Loan Deposit Account, at 103¼ per cent., against the cost price of 97-13-11$\frac{23}{47}$."

Considered letter No. 2199, dated 21st instant, from the Acting Chief Accountant, to the Acting Commissioner, as under :—

SIR,—In continuation of this office No. 2066, dated the 13th instant, and with reference to the Standing Committee's Resolution No. 4272, dated 2nd August 1893, I have the honour to report for the information of that body that further lots of 4 per cent. Government paper of the Loan of 1854-55 for Rs. 2,25,000 and Rs. 75,000 belonging to the 23½ lakhs loan and Surplus Cash Deposits Accounts respectively, were sold on the 20th instant, at 104¾ per cent. and 105 per cent. against their cost prices of 103¾ per cent. and 105-5/16 per cent. as shown in the margin.

	Cost Price.	Selling Price.
23½ Lakhs Loan Deposit Rs. 2,00,000	103¾	104¾
25,000	103¼	105
Surplus Cash Deposit Account Rs. 75,000 ...	105-5/16	105

2. It will be observed that the total sales effected as per details given in the margin exceed the sum of Rs. 9 Lakhs sanctioned in the Standing Committee's Resolution No. 4272, quoted above, by Rs. 8,000, which excess was unavoidable for the following reasons:—

Paper for Rs.	1,00,000	sold as per this office No. 2054, dated 8-9-93.
,,	1,00,000	do. 2285, ,, 29-9-93.
,,	1,50,000	do. 2500, ,, 14-10-93.
,,	83,000	do. 2601, ,, 23-10-93.
	4,33,000	
Paper for Rs.	1,00,000	do. 1942, ,, 3-8-94.
do. ,,	75,000	do. 2066, ,, 13-8-94.
do. ,,	3,00,000	do. as per present report.
	Rs. 4,75,000	
Total Rs.	9,08,000	

3. The lots for 3 lakhs sold by us as per para. 1 contained only 4 pieces of Rs. 50,000 and 4 of Rs. 25,000 each, and none of any lower amounts, and therefore it was not convenient to split up the amount. Moreover, we would have had to pay to

the Bank of Bombay the usual sub-division fee of Rupee one per note if the pieces had to be sub-divided into those of smaller amounts, and besides much delay would have been caused, whereby the opportunity of selling the paper at the favourable rates now obtained would have been lost.

4. Under the circumstances the Standing Committee will be pleased to accord their formal sanction to the sale of the above paper for Rs. 8,000.

5. May I also request the favour of your obtaining the Committee's sanction at the same time to further sales of securities from time to time not exceeding Rs. 10 lakhs to meet our requirements for expenditure on Loan Works, &c., each sale being reported to that body within seven days from the date on which it is effected.—I have, &c.,

W. PEARSON, Acting Chief Accountant.

Resolved : "That the following be *recorded* :—Memo-
No. 5619. randum No. 11633, dated 21st instant, forwarding letter from the Acting Chief Accountant, No. 2199, of the same date.

2. "That sanction be given to the excess sale of Rs. 8,000 of 4 per cent. Government Promissory Notes therein mentioned, as the paper in question was made up of prices of Rs 50,000, and 25,000, which could not, without loss of time and expenses be divided so as to limit the sale to the precise amount sanctioned by the Standing Committee in their Resolution No. 4272, dated 2nd August 1893. Such Rs. 8,000 to be taken as part of the amount sanctioned for sale in the next para. of this resolution.

3. "That, as applied for by the Acting Commissioner in his above memorandum, sanction be given to the further sale from time to time as occasion arises, of 4 per cent. Government Securities to the extent of Rs. 5,00,000 to meet current expenses on account of Loan works in progress.

4. "That each sale on account of the said Rs 5,00,000 be reported to the Standing Committee within seven days."

Resolved : "That, as applied for by the Acting Muni-
No. 5620. cipal Commissioner, in his memorandum No. 11668, dated 21st instant, and subject to the parties concerned consenting to such conver-

sion, sanction be given to the conversion of 4 per cent. Government Promissory Notes of the Loans of 1854-55 and 1865, and reduced Loan of 1879, deposited by Municipal contractors and employés and others, into 3½ per cent. notes under the terms of Government Notification, No. 4093, dated 13th idem."

No. 5621. *Resolved*: "That, as applied for by the Acting Commissioner in his letter to the Secretary, No. 11676, dated 21st instant, sanction be given to the purchase, from Messrs. Dadabhoy, Hormasjee and Co., of 250 tons of Powell's Duffryn Cardiff coal, at Rs. 19-8 per ton, and 250 tons of Davison's West Hartley coal, at Rs 18-4 per ton, delivered at the Love Grove Pumping Station. The cost Rs. 9,248-12-0 to be debited to Section II, B. Coal, Maintenance of Love Grove Pumping Station.

"That under the terms of section 72 (3) of the Municipal Act, the Committee dispense with the invitation for tenders which would otherwise be necessary, as similar arrangements previously sanctioned by the Committee have been advantageous to the Municipality."

No. 5622. *Resolved*: "That letter No. 11771, dated this day, from the Acting Commissioner to the Secretary, be circulated to the Committee and brought on for consideration at next meeting."

No. 5623. *Resolved*: "That, subject to the approval of the Corporation, under the terms of section 133 (2) of the Municipal Act, sanction be given to the transfer of Rs. 5,490 from savings in the grant for feed of bullocks, Health Department, to section II, Labour, Scavengering branch, feed of bullocks, to meet the cost of the continuance of the employment up to 30th November 1894, of the 80 carts and 80 pairs of bullocks, for the Health Department, the hiring of which was sanctioned by the Corporation in their resolutions Nos. 2881 and 3335, dated 14th and 21st June last, respectively."

No. 5624. *Resolved*: "That, as applied for by the Acting Commissioner, in his letter to the Secretary, No. 11664, dated 21st instant, sanction be

given under Article 938 of the Civil Service Regulations to the payment of the salary due to Mr. Acworth while on privilege leave, to his agents in Bombay, on their executing an indemnity bond to refund overpayments, if any."

No. 5625. *Resolved*: "That, as applied for by the Acting Commissioner, in his letter to the Secretary, No. 11667, dated 21st instant, sanction be given to Haji Vali Haji Usman being allowed to retain, on the following conditions, the works executed within the regular line of the street of his house, Nos. 23-25, Huzria Street, *viz.*, (*a*) That the land required from him for the street improvement, admeasuring 5·37 square yards, or thereabout, shown in red scoring on the plan marked "A," dated this day, and filed in "Supplement to Minute Books," be sold to the Municipality at the rate of Rs. 7 per square yard, *minus* the capitalized amount of ground rent, if any, payable either to Government or the fazindar as the case may be, calculated at 25 years' purchase. (*b*) That the Municipality lease the 5·37 yards to Hadji Vali Hadji Usman at an annual rent to be paid by him, to the Municipality in advance, calculated at 6 per cent. on the total amount paid to him by the Municipality, for the absolute purchase of the land, including that covered by the rewas, the said rent to be paid by him until such time as either of the houses on each side of his property becomes liable to be set-back. (*c*) That he pays the cost of stamping and registering the agreement. (*d*) That when either house adjoining his property becomes liable to be set-back, he shall remove the superstructure which he has built over his land within the regular line of the street, and make over the said 5·37 yards, or thereabout, to the Municipality, clear of all encumbrances."

No. 5626. *Resolved*: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 11377, dated 17th instant, sanction be given, under section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. Killick, Nixon and Co. for the supply of 500 tons coal at the

Love Grove Pumping Station, whereby the period for the supply may be extended to 20th ultimo."

Read the following :—

Letter No. 10,603, dated 6th instant, from the Commissioner, to the President of the Corporation, as under :—

SIR,—I have the honor to say that I desire to withdraw my letters, Nos. 10431 and 10504, of 21st August 1893, 11016 of 28th idem, and 11529 and 11800, of 2nd and 7th September 1893, respectively, as I do not wish to press any claim for expenditure during the riots under section 64 (3) (*c*) of the Act.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 10604 OF *6th August* 1894.

Copy forwarded to the Chairman of the Standing Committee. The Commissioner desires also to withdraw his letters, Nos. 10504 and 11799, of 21st August and 7th September 1893, respectively, to the Standing Committee.

H. A. ACWORTH, Commissioner.

Resolved : "That the following be *recorded* :—Memorandum from the Commissioner to the Secretary, No. 10,604, dated 6th instant."

No. 5627.

Considered the following :—

No. 9826, 1894-5.

BOMBAY, *27th July* 1894.

THE MUNICIPAL SECRETARY.

THE accompanying report on the working of the Goculdas Tejpal Hospital for the year 1893 is forwarded to the Municipal Secretary for the information of the Standing Committee and the Corporation.

H. A. ACWORTH, Commissioner.

ANNUAL REPORT OF THE GOCULDAS TEJPAL NATIVE GENERAL HOSPITAL, BOMBAY, FOR THE YEAR 1893.

(1) *Conservancy and Water-supply* :—The system adopted in this Hospital is the "water carriage system." It worked satisfactorily as usual. The closets in the main building were carefully flushed and cleaned, and the ordinary latrines in the compound were kept well cleaned and disinfected.

The water supply was as good and as abundant as could be desired.

(2.) *Hospital Buildings* :—These were kept in excellent order. The usual repairs, painting of the walls of the upper floors, lime-washing, &c., were done to my entire satisfaction by the Public Works Department. The old hospital main gas pipe which was found to be useless was removed and a new one was laid in its place increasing the expenditure during the year to a certain extent.

(3.) *General Health of the Town* :—

(4.) *Attendance of Patients* :—

(*A.*) *In-door Patients* :—The total number of admissions during the year was 3,016 as contrasted with 3,060 of last year, being a decrease of 44. The total treated in the wards was 3,124 as contrasted with 3,167 of last year, being a decrease of 43. Of these 2,691 were males, 290 females and 143 children ; and classified according to race there were 1,631 Hindoos, 950 Mahomedans, 362 Native Christians, 162 Parsees, and 19 of other denominations. Each bed accommodated during the year about 26 patients, as it did the year previous. The average detention in Hospital was about 12 days. The average daily number of in-door patients was 102·2, the average of men being 85·7, of women 11·5, and children 5·0.

(*B.*) *Out-door Patients* :—The total number of admissions was 15,828 as contrasted with 14,718 of last year, showing an increase of 1,110. The total treated was 15,914 as contrasted with 14,807, showing an increase of 1,107. Of these 10,696 were males, 2,167 females, and 3,051 children. Classified according to race there were 9,214 Hindoos, 4,003 Mahomedans, 1,806 Parsees, 862 Native Christians, and 29 of other denominations. The average daily number of sick out-patients was 105·5, the average of men being 68·6, females 16·4 and children 20·5.

On the day the Hindoo-Mahomedan riots began, *viz.*, Friday the 11th August 1893, there was a large influx of patients which lasted from 1-30 p.m. till 10 o'clock in the night, there were in all 147 cases treated of which one proved fatal. Most of these cases (92) being cases of slight injuries to the head, (inflicted by stone throwing and sticks) were treated as out-patients and allowed to go home. Of the more serious cases only a few were taken away by their friends after having their wounds dressed, and the rest, that is 55, were detained in Hospital. After 10 o'clock at night there were no admissions in large numbers, only a few stray cases coming in now and again until the end of the riots. For some days after the subsidence of the riots the ordinary daily admissions were comparatively very few, people being afraid of going about, and hence the strain on the Hospital accommodation was never very great.

(5.) COMMON DISEASES AMONGST THE IN-PATIENTS.

A. Medical:—The admissions from the most prevalent diseases were in the following order :—

(1) *Malarious Fevers*:—342 ; of these 59 were cases of remittent fever and 283 of the quotidian variety of intermittent fever.

These diseases as usual headed the list of prevailing diseases in this Hospital ; and as far as I could ascertain their prevalence was due to the following causes :—Many of the Bombay poor have constitutions relaxed by exposure to the heat of the sun, profuse perspiration, and privation ; when at night there is no roof over their heads to shelter them, and no beds for them to lie on, and they are obliged to lie on damp ground, and are exposed to the special malarial poison lurking there, and to the night chill, they become an easy prey to the onslaught of one or other forms of these diseases. Many such patients come from known malarial districts in search of food and employment to Bombay, and not finding either, their health breaks down and the slightest chill brings back their old attacks. Some, like the pilgrims for instance, get attacked in passing through Bombay and they get admitted. These pilgrims as is well known are in the worst possible bodily condition as a rule. In spite of the great and persistent efforts at improving the sanitary condition of Bombay which our Municipality is constantly making, the ineradicable and ingrained bad habits of the natives is such that dampness of soil and ground floor of houses, overcrowding in houses and in rooms, contamination of the stored drinking water, accumulations in and about the houses of decaying vegetable matters and other kinds of filth, unclean and unflushed "morees and nahnees" and other conditions favourable to the productions of the germs of malaria abound to a certain extent in many localities which no sanitary supervision, however efficient, could possibly prevent. If it was not for a pure and abundant drinking water-supply with which Bombay is blessed, and for the pure and fresh sea breezes, malarious fevers would be even much more common than they are now. (2.) *Rheumatism* 259. These were all of the chronic variety except one. (3.) *Respiratory affections*:—200 ; of these there were 121 cases of chronic bronchitis. 57 of pneumonia, 12 of asthma and 3 of acute bronchitis. It is to be noted that pneumonia is more common in Bombay than one would expect, and its fatality is great. (4.) *Diarrhœa* 129 :—These were as usual mostly chronic and inveterate cases and the mortality was great. The cases occurred principally in beggars and pilgrims. (5.) *Dysentery* 102 :—Here again the patients were of the same class as above. (6) :—*Diseases of the nervous system* 96 :—The principal ones were 27 cases of cerebral lesions (softening and hœmorrhage) ; 24 of tetanus, all of the traumatic variety and of a severe type, 10 of neuralgia, 7 of vertigo, 7 of insanity, &c. The insanity cases were only detained in Hospital until they

could be diagnosed as such and then handed over to the Police for disposal. (7.) *Tubercle* 94:—These were cases of pulmonary phthisis, mostly in advanced stages, and often brought to the Hospital, so that they may not die in the streets. Most of them were complicated with inveterate diarrhœa. They occurred in pilgrims, beggars and others. (8.) *Liver diseases* 42:—of these, 22 were cases of hepatitis, 10 of hepatic abscess, 5 of jaundice and 4 of congestion. The hepatic abscesses furnished some of the worst cases, the abscesses being very large and the pus replacing almost the whole of the hepatic tissues. All these patients were addicted to the abuse of country liquor.

B. *Surgical.*—The situation of this Hospital is favourable for the admission into it of many and severe surgical cases. The two great Railway Termini, the landing piers, the docks, and shipping are so very near it and it is situated not only near the most densely populated districts of Bombay, but midway between two great portions of it, *viz.*, the Fort and outfort. Hence assault cases and cases of Railway and tram accidents, ordinary carriage accidents, and lastly accidents from the mills, docks, and shipping are brought to it in large numbers; accidents from the shipping alone furnishing 135 cases. Moreover, during the year under review the Hindoo-Mahomedan riots furnished 55 cases of in-door patients suffering from severe lacerated and contused wounds of the head and face, and of the upper and lower extremities, including three cases of gun-shot wounds.

There were 683 cases of local injuries, being 27 more than last year. Of these the principal surgical regions affected were in the following order of frequency:—Lower extremity 235; upper extremity 205; head and face 125; chest 48; back 31; abdomen 33; pelvis 7; eye 6; and neck 3.

Wounds of all kinds furnished 284 cases; Of these the important ones were the three gun-shot wounds furnished by the riots. One was a gun-shot wound of the left arm, the bullet passing through the arm fracturing the humerus, penetrating the chest wall and ultimately lodging itself behind the scapula, from whence it was easily removed. Another was one of the pelvis, the bullet passing inwards and slightly backwards fracturing the great trochanter and entering the pelvic cavity. The track of the ball was large and long enough to admit the whole of the finger at the end of which fragments of bone were felt and were removed. The bullet having probably lodged deeper in the pelvis fracturing the ileum and sacrum, could not be felt, and it was considered more dangerous to search for it than to let it lodge inside; it was accordingly left alone, the patient being fairly well and having no symtoms indicative of mischief to any of the pelvic viscera. This patient has been under treatment in the hospital since then and is now convalescent. The third case was one of penetrating wound of the chest in which

three buckshot had entered the lungs as proved by the fact that the man had external hæmorrhage, hœmoptysis and collapse and emphysema for two days. It was not considered desirable to search for and remove the shot at the time and the man left the hospital well. He was re-admitted after some time and one of these shots was removed from the back, the man leaving the hospital well again. *Fractures of all kinds* 230 :—Of these there were 9 of the base and 4 of the vault of the skull; 4 of the spine and 1 of the pelvis; 97 of the fractures were compound and 133 simple. These include the three cases furnished by the riots, namely, one of fracture of the base of the skull which proved fatal within two days; one of the vault of the skull with depression of bone, in which the bone was elevated the man recovering; and one of compound fracture of the clavicle which did very well. *Contusions* :—146. Of these the important ones were 26 of the chest, 23 of the back, and 22 of abdomen, one of which was complicated with rupture of viscera. *Dislocations* :—5. Of these 1 was compound and 4 were simple. The principal ones being one of the hip and one of the shoulder joint. Of surgical diseases the principal ones were in the following order of frequency of admissions. (1) *Venerial diseases* 173 : These included 23 cases of primary and 64 of secondary syphilis; 25 of gonorrhœa, and 61 of diseases classed under "ulcer of genitals" which were cases of soft chancre. These were all severe cases and fit for admission; (2) *Abscesses* 68; (3) *Ulcers of all kinds* 59. (4) *Diseases of the Tunica Vagnialis* 52. Of these 38 were of hydrocele, most of which requiring the radical cure of eration, and 14 of bad cases of hæmatocele; (5) *Bubos* 39. (6) *Tumours* 36. Of these 31 were non-malignant and 5 malignant; of the malignant ones 3 were cancers of the breast, one was cancer of the uterus and one cancer of the cheek. (7) *Diseases of the rectum and anus* 36; Of these the principal ones were piles internal and external 10, fistula 6, abscesses 6, prolapsus 5, fissures 5, and ulceration 4; (8) *Skin diseases* 23; (9) *Burns of various degrees* 20, (10) *Strangulated Hernia* 13. Of which 3 required herniotomy. (11) *Calculus in the bladder* 12. (12) *Orchitis* 11. (13) *Stricture of the Urethra* 10. (*C*) *Toxicological* 143. Of these there were 89 admissions from alcoholic poisoning, 21 from opium, 15 from dhatura, 3 from cannabis indica, 3 from poisonous fish, 2 from arsenic, 2 from petroleum, 1 from mercury, 1 from aconite, and 1 from morphia. There were 5 cases of poisoned wounds, principally horse and rat bites. *Common diseases treated amongst the out-patients* :—The principal ones were in the following order :—(1) Malarious fevers 2,138; here again these head the list; they were principally intermittent fevers. (2) Skin diseases 197·2, a much larger number than that of last year, principally scabies, ringworm, boils, eczema and urticaria. (3) Respiratory affections 1,314. (4) Chronic Rheumatism 986. (5) Venereal diseases, including syphilis, gonorrhœa and ulcers of genitals 747. (6)

Ulcers of all kinds 736. (7) Intestinal worms 439. (8) Ear diseases 339, principally suppurative otitis media and accumulations of wax. (9) Eye diseases 329, principally conjunctivitis and ulcers of the cornea. (10) Diarrhœa 286. (11) Dysentery 105. There were 2,866 cases treated of local injuries, consisting principally of wounds and contusions and 93 of general injuries. These include the 92 out-door cases furnished by the riots which were principally wounds and contusions of the head.

Police and Medico legal cases and Inquests :—There were 2,163 Police cases brought to the Hospital for treatment and opinion. These were mostly accidents and assaults. There were 55 inquests held; 26 for fatal injuries, 8 for poisoning, 8 for traumatic tetanus, 4 for burns, 2 for pyœmia, 2 for apoplexy, 1 for dysentery, 1 for diarrhœa, 1 for peritœnitis, 1 for exhaustion, and 1 for submersion.

6. *Observations on Major Surgical operations* :—There were in all 118 major operations performed during the year, or 18 more than the previous year. Counting the two remaining from the previous year the total was 120. These were all performed by me, the House Surgeon giving chloroform and the hospital Assistants assisting. Fourteen deaths occurred, showing a mortality of 11·7 per cent.; 98 were discharged cured, five were discharged relieved, one was discharged otherwise, and two remained under treatment. Of the 14 fatal cases, *four deaths* occurred in cases of hepatic abscess opened by the knife, the abscesses being very large; *three* in herniotomy. The cases being brought in either too late for operation, the bowel being found at the time of the operation almost gangrenous, or the patient had consented to the operation at a later stage after attempts at taxis and palliative measures had failed; *two deaths* occurred in lithotomy lateral, one in the case of a child who was markedly ricketty with a large head and who had septic peritonitis developed soon after the operation; another in the case of an adult from whom a very large stone, about the size of an orange, weighing three ounces and seven drachms, was removed with difficulty; he died of exhaustion caused by diarrhœa. *Two deaths* occurred in amputations of the thigh; in one the amputation was performed for chronic suppurative arthritis of the right knee in a man who was very weak and emaciated, and who was getting more so every day; in the other it was done for severe and extensive crush of the thigh caused by a railway accident; here the amputation was performed near the hip joint; tetanus set in on the eighth day, and he died a few hours afterwards. *One* occurred in a case where paracentesis of pleura was performed for empyema. *One* occurred in a case where a large hæmatocele was opened by the knife; the patient was an old man with a double hæmatocele and had recently been unsuccessfully treated elsewhere for a stricture, and had lost much blood from the urethra. The hæmatocele was slit up and the re-

tention of urine was relieved on admission; the scrotum sloughed to some extent, and then the wound began to heal; but the copious discharges from the cavity of the opened abscess proved too much for him, and he died exhausted. *One* occurred in a case of removal of cancer of the breast. The patient was an old woman. The tumour, along with the whole of the breast and many diseased lymphatic glands from the axilla, were all carefully removed, in doing which large veins had to be ligatured; the patient died of exhaustion five days after the operation. Of the 118 major operations the important ones were in the following order :—

Amputations 36 (with two deaths, being a mortality of 5·6 per cent. Of these, 17 were of the upper extremity, including three of the forearm and one of the arm; 19 of the lower extremity, including three of thigh, two of which proved fatal, and six of the leg. Two of these amputations were done for mycetoma of the foot, three for sarcoma, one for caries, one for joint disease, and the rest for injuries.

Removal of calculus in the bladder 12. Of these, one was removed by litholapaxy, the patient recovering, and 11 by lateral lithotomy, with two deaths. *Hepatic abscess opened by the knife* 6, with four deaths.

Removal of tumours 6. Of these, two were cancers of the breast, with one death; one a sarcoma of scalp, one a sarcoma of toe, one a naso-pharyngeal fibroid tumour removed by the ecraseur, and one sarcoma of testis by castration; all discharged cured.

Reductions of dislocations 5. The principal ones were one of hip and one of shoulder. All were discharged cured.

Legature of arteries for injuries 4. Two ulnar and two radial arteries. All cured.

Excision of Eye-ball 3. One was done for sarcoma, one for panophthalmitis, and one for rupture of the eye-ball. All cured.

Operation for stricture of the urethra 3. Two were forcibly dilated by Holt's method, and in one internal urethrotomy was performed by Berkely Hills Urithrotome. All were cured.

Removal of foreign body from the trachea by tracheotomy 1. This was in the case of a child who during play had inhaled a small blue glass bead into its larynx. It was lying in contact with the vocal chords. Tracheotomy was performed and the bead removed by a pair of forceps introduced gently through the wound.

Removal of a bullet from chest wall 1. I have already alluded to this case in the report.

(7) *Mortality and its causes.*—There were in all 332 deaths, or 10·6 per cent. to total treated. This percentage was very nearly the same as that of the year previous, which was 10·2. Of

the total number of deaths, 69 occurred within 24 hours, 92 within 4 days, and 171 above a week after admission. Nearly half of the deaths, it will be observed, occurred within 4 days, showing the hopeless nature of the cases admitted. The largest number of deaths occurred in the months of April, July, August and October—October being the worst month. The large mortality in this hospital is to be attributed to several causes. The situation of this hospital. as I have already pointed out under the heading "Common diseases among the In-patients B," is one of these, as very serious accidents are brought to it, 55 deaths being caused by serious accidents alone. Not only that, but the trains arriving at the two great Railway Termini often bring in some passengers who are taken dangerously ill on the long journeys made to the various Hindoo religious fairs and pilgrimages to the different shrines all over Upper India. These either find their way to this hospital, or are brought in by the Police. Another reason is that a large number of pilgrims are brought to this hospital, no less than 360 being admitted, of whom 98 died. During the year 16,887, pilgrims left Bombay for Mecca from January to May; and 8,884 arrived in Bombay from Mecca from July to December. Those who leave Bombay have bad health enough; but those arriving in Bombay from Mecca are always in the worst possible condition of body and mind, having suffered from privation, exposure and hardships of all kinds. These furnish some of the worst cases of disease to this hospital, the majority dying within a few hours or days of admission. Every one of these pilgrims that I saw presented a picture of misery and suffering, of dirt and disease, rendered all the more hideous by the fact that it was seen in the 19th century. Lastly, this hospital gets many cases from amongst the army of beggars who congregate on the Esplanade in the vicinity of the hospital and other public institutions adjacent to it. These beggars, when they are not allowed to infest the public highways, find a convenient place to rest undisturbed here, and sooner or later, from exposure and want, particularly in the rains, they become ill, and seek admissions into the hospital, or, if found lying on the ground or in the gutters, are picked up by the Police and brought in. Whatever the disease that attacks them, their constitutions are so bad that they easily fall victims to it. The principal diseases, injuries, &c., which caused the largest number of deaths, were in the following order:—(1) Diarrhœa 60 deaths. Pilgrims, beggars and a few others were the victims. The diarrhœa was chronic and of long standing and of the worst type. (2) Tubercle 47 deaths. These were all in the advanced stages of phthisis pulmonalis when admitted, and had tubercular ulceration of the intestines as well. (3) Privation 34. These were principally pilgrims and mendicants. (4) Pneumonia 18.

(5) Remittent fever 17. (6) Chronic bronchitis 17. (7) Dysentery 14. (8) Anœmia 14. (9) Tetanus 12. (10) Multiple injuries 9. (11) Fracture of base of skull 7. (12) Hepatic abscess 6. (13) Opium poisoning 5. (14) Valvular disease of heart 5. (15) Burns 4. (8) *Vaccination* not practised in this hospital. (9) *Conduct of the Establishment*:—Senior Apothecary Charles Easdon's character, conduct, efficiency and general professional qualifications have been so often favourably reported on by me that I need not say anything further in this report beyond this, that during the riots he proved to be a most valuable officer in every respect. His zeal and devotion to duty and his resourcefulness were thoroughly demonstrated during the few but very trying hours in which cases of all degrees of severity were brought in in very quick succession. The whole staff of Hospital Assistants and servants worked under him harmoniously and with clock-work regularity. In this connection I may specially mention First Class Hospital Assistants Nagoo Luxamon and Pirajee Siwajee, Second Class Hospital Assistant Narayen Bhaurao, and Third Class Hospital Assistants Prabakhar Shankhar and Shaik Ahmed.

The Hospital Steward, Mr. Balcrishna Wassoodev, and his Assistant Mr. Pestonjee Framjee, did their work as usual very well, and there was never any complaint made by any patient about the diets or clothing. I inspected the daily rations and often the cooked rations and inspected the clothing, and found all as they should be.

Mr. Rodrigues, the Hospital Writer, kept the books in good order and did his work satisfactorily.

During the year the Surgeon-General very kindly placed at my disposal at different times the services of the following Assistant Surgeons :—Messrs. P. P. Moollan, K. S. Engineer, D. S. Bharucha, T. C. Khandwalla and T. H. Aquino. They all performed their duties to my satisfaction and gave me great help.

10. General Observations :—The expenses were kept within bounds as much as possible, and the cost of diet per head per annum did not exceed that of the year previous. It was three annas and one pie.

D. N. PARAKH, Surgeon-Major,
Surgeon to the Goculdas Tejpal Native General Hospital.

Bombay, 22*nd January* 1894.

No. 5628. *Resolved* : "That the report of the working of the Gokuldas Tejpal Hospital for the year 1893, be passed on to the Corporation.".

No. 5629. *Resolved* :—"That the consideration of the Progress Report of new works in course of construction up to the end of June last, be postponed until the next meeting."

No. 5630. *Resolved* : "That the following be *recorded* :—Memorandum No. 11460, dated 18th instant, from the Acting Commissioner to the Secretary, reporting with reference to the Committee's Resolution No. 4484, dated 3rd October 1888, the following transfers to the General Fund Pass Book, *viz.*:"—

On 9th August 1894.	(*a*) From the 23¼ Lakhs Loan Deposit Account.	Rs. 7,900	2 4
„	(*b*) Worn out Mains Renewal Fund Deposit Account	Rs. 507	14 8
„	(*c*) Net Premia, &c., on different Municipal Loans Deposit Account	Rs. 3,555	6 8
		Rs. 11,963	7 8
On 11th August 1894.	(*d*) From the 44 Lakhs Sanitary Works Loan Deposit Account No. 1	Rs. 75,000	0 0
		Rs. 86,963	7 8*

* The Acting Chief Accountant reports to the Commissioner that the balances remaining to the credit of the above Deposit Accounts, after effecting the transfers now reported, stand as under :—

(*a*)	In 4 per cent. Government Paper for...	Rs. 4,88,000 =	Rs. 5,08,419 13 6
(*b*)	In 5 per cent. and 4 per cent. Municipal Debentures for	„ 2,05,000	Rs. 2,05,000 0 0
	In Cash	.....	„ 120 7 8
			Rs. 2,05,120 7 8
(*c*)	In 5 per cent. and 4 per cent. Municipal Debentures for	Rs. 1,68,000	Rs. 1,68,000 0 0
	In Cash.....	.....	„ 393 11 9
			Rs. 1,68,393 11 9
(*d*)	In 4 per cent. Government Paper for...	Rs. 3,99,000	Rs. 3,90,510 10 1
	In Cash	.....	„ 2,919 8 3
			Rs. 3,93,430 2 4

Considered letter, dated 14th instant, to the Chairman and members, from Ardesir, Hormusji and Dinshaw, on behalf of Messrs. R. Ramchandra and Company, contractors, for the supply of disinfectants, complaining that the Commissioner has refused to accept certain supplies tendered by Messrs. R. Ramchandra & Co., and it was—

No. 5631. *Resolved*: "That, in reply to their letter dated 14th instant, on behalf of Messrs. R. Ramchandra & Co., Messrs. Ardesir, Hormusji and Dinshaw be referred to the Standing Committee's Resolution No. 4428 of the 25th ultimo."

No. 5632. *Resolved*: "That the following be referred to the Commissioner for favour of remarks :— Letter, dated 17th instant, from Mr. Edulji Nassarwanji Setna, on the subject of laying a 3" water main in the Parsi Punchayet Lane."

The following statement * was laid on the table :—

The statement of height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 19th August 1894.

Read letter No. 5607, dated 21st instant, as follows :—

THE CHAIRMAN of the STANDING COMMITTEE
of the Municipal Corporation.

SIR,—I have the honour to inform you that in connection with the enquiry on the question of the disposal of the Town Sweepings, the Committee appointed by the Corporation have come to the conclusion that it is necessary they should obtain the services of a qualified Air Analyst and incur charges for printing, &c., the total of which, it is estimated, will amount to Rs. 3,000. I have, therefore, been requested to ask the Standing Committee to recommend the Corporation to sanction the grant of that sum.—I have, &c.,

B. SCOTT, Major, R.E.,
Chairman of the Committee of the Corporation
on the question of the disposal of Town Sweepings.

Proposed by S. Rebsch, Esq., seconded by Bhalchandra K. Bhatawadekar, Esq.—

No. 5633. "That letter, dated 21st instant, from the Chairman of the Committee of the Corporation, appointed to report on the question of the

* *See* Appendix B.

disposal of Town Sweepings, be forwarded to the Corporation with the recommendation that sanction be given to the grant of Rs. 3,000 to meet the cost of procuring air analyses by an expert and of printing and other charges, which may have to be incurred, in carrying out the enquiry. The amount to be met from Surplus Cash balance."

Carried.

The Acting Commissioner reported that he has effected exchange at 1s. $1\frac{5}{16}$d. for payment of £2,396 and £654, respectively, payable to Messrs. James Simpson and Company, and Messrs. Hughes and Lancaster, in connection with their contracts for the supply of machinery for the Love Grove Pumping Station, and for the supply of vent-shafts, &c., for the Colaba sewerage works. The Acting Commissioner further reported that he has effected exchange at 1s. $1\frac{5}{16}$d. for payment of £1,551 payable to Messrs. Hughes and Lancaster in connection with their contract for Colaba sewerage, and it was resolved that this matter should come up for consideration at the next meeting.

BOMBAY, 29*th August* 1894.

AT the meeting of the Standing Committee held this day, there were present:—

G. W. ROUGHTON, Esq., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, Esq., L.M.; COWASJEE HORMUSJEE, Esq., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, Esq.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, Esq.; K. M. SHROFF, Esq.; S. REBSCH, Esq., Asso. M.I.C.E.; ACCACIO G. VIEGAS, Esq., L.M. & S.; R. H. VINCENT, Esq., C.I.E.; CAPT. W. P. WALSHE.

Surgeon-Lieut.-Col. T. S. WEIR, Acting Commissioner; the EXECUTIVE ENGINEER; and the SECRETARY.

The minutes of the meeting held on the 22nd instant, were signed.

The seal of the Corporation was affixed to deeds of contract (1) with Mr. Sayaji Naguji for the work of filling in the compound of the Small-pox Hospital at Arthur Road and constructing surface drains thereat; (2) with Messrs. Bradbury, Brady & Co., for the supply of one thousand

and fifty pounds of Dermative valve faces ; and (3) with Messrs. Pestonji Edalji Mistri and Son, for construction of a cemetery office and chawl for grave diggers at Haines Road, and (4) to deed of contract with Messrs. Ratanji Bezanji & Co., for paving part of the Bori-Bunder stables with set stones.

The seal of the Corporation was affixed to the following:—(*a*) to 55 attested duplicate debentures of Tansa Water-Works Loan Nos. 15120, 17529 and 17530; 33, 34, and 1901 to 1950 of Rs. 500 each. (*b*) to 2 Do. do. Nos. 12827-28 and 12829-30 of Rs. 1,000 each. (*c*) to 3 attested duplicate debentures of Bombay Municipal Sanitary Works Loan (of 1885) Nos. 1104 N.N., 2311 N.N. and 2340 N.N. of Rs. 500 each. (*d*) to 6 consolidated debentures of the Tansa Water Works Loan Nos. 3435-36 to 3445-46 of Rs. 1,000 each, and (*e*) to 1 Do. do. do. Nos. 3485-94, of Rs. 5,000.

No. 5940. *Resolved:* "That, as applied for by the Commissioner, in his memorandum No. 11919, dated 25th instant, sanction be given, under section 351 (2) of the Municipal Act, to the removal of the following structure built without permission :—

Name of owner.	Where.
Mr. A. P. Menezes.....	Shed at DeLisle Road."

No. 5941. *Resolved* : "That, as applied for by the Commissioner, in his memorandum No. 12348, dated this day, sanction be given to the cutting off of water connection, as per list submitted therewith."

Considered letter No. 11771, dated 22nd instant, from the Acting Commissioner to the Secretary, as under:—

SIR,—In their resolution No. 11644, dated 1st February last, the Corporation sanctioned an expenditure of Rs. 20,000 for providing additional machinery and plant for lighting the Municipal Meetings and the Arthur Crawford Markets with electricity, and approved of the tender of Messrs. John Fleming & Co. for supplying and putting up the machinery at a cost of £1,144-15-0, at the rate of exchange ruling at the time their tender is accepted. This sum of Rs. 20,000 was made up (see this office No. 17182, dated 22nd September 1893) as follows :

Machinery, &c., at £1,144-15-0 at 1s. 3d. the rupee .	Rs.	18,316
5 per cent. for Contingencies and Establishment ...	„	916
	Rs.	19,232
Added to make up a round sum of.....	„	768
	Rs.	20,000

The Executive Engineer communicated with Messrs. John Fleming & Co. on the 8th idem, on which day the ruling rate of exchange was 1s. $\frac{3}{16}$d., and at that rate the value of £1,144-15-0 is Rs. 19,890-10-10.

Thus it will be seen that the difference on account of fall in exchange between the estimated amount, viz., Rs. 18,316 and the amount accepted, viz., Rs. 19,890-10-10, is Rs. 1,574-10-10. To this sum must be added Rs. 513-8-0 on account of import duty paid by the contractors, making a total of Rs. 2,088-2-10.

The Executive Engineer reports that a sum of Rs. 616 only is required out of the sum of Rs. 916 included for contingencies, establishment, &c., in the grant made by the Corporation for certain works in connection with the alterations to the shed in which the dynamo and engines are located and for payment of other incidental charges. This sum Rs. 300 plus Rs. 768 granted by the Corporation to make up Rs. 20,000 = Rs. 1,068 will go towards the extra payment on account of exchange and import duty, and I request the sanction of the Standing Committee and the Corporation to an additional sum of Rs. 2,088—1,068=1,020 from the Surplus Cash Balance to meet the charges above referred to. Sanction of the Standing Committee is also requested to the payment of Rs. 513-8-0, amount of import duty, to Messrs. John Fleming & Co., to which they are entitled under section 10 of the Indian Tariff Act VIII. of 1894.

There is a balance of Rs. 62,188-13-9 available in Surplus Cash Balance.—I have, &c.,

T. S. WEIR, Acting Commissioner.

No. 5942.

Resolved: "That letter No. 11771, dated 22nd instant, from the Acting Commissioner to the Secretary, reporting an excess of Rs. 2,088-2-10 on the grant for machinery and plant for lighting with electricity the Municipal Office and the Arthur Crawford Markets (on account of fall in exchange on London, and the imposition of Import Duty, be forwarded to the Corporation, with the recommendation that sanction be given to the payment of Rs. 1,020,

from Surplus Cash Balance, towards the total of Rs. 2,088-2-10, the balance being defrayed from the savings on the grant for such lighting under other heads.

"That sanction be given to the addition of 5 per cent. Import Duty, amounting to Rs. 513-8-0, to the bills of Messrs. John Fleming and Co., the contractors, such additional 5 per cent. being payable under the terms of section 10 of the Import Act 8 of 1894 of the Government of India."

Read letter No. 2201, dated 22nd instant, from the Acting Chief Accountant to the Acting Commissioner, as under :—

SIR,—I have the honour to state that, under the terms of the contract entered into with Messrs. James Simpson & Co. for the supply of engines and pumps for the Love Grove Pumping Station, the final payment of £2,396 is to be made to them through Messrs. Coutts & Co. by a telegraphic remittance on receipt of the certificate of the engineer at the expiration of one year from the date of the completion of the erection of the machinery that the same has performed the work to be required to be done by it.

2. The above period of one year has already expired, but owing to certain defects in some of the engines, the question of taking them over and of making the final payment to the contractors has not yet been finally settled.

3. As, however, the payment can be claimed at any time, and as under the contract it is to be made by a telegraphic remittance, I have under your instructions obtained bills for the above amounts and the cost at the rate of exchange now obtained, *viz.*, 1s. $1\frac{5}{16}$d., amounts to Rs. 43,195-7-10.

4. In the final revised estimates of the cost of the supply and erection of the above machinery sanctioned as per Corporation's Resolution No. 3694, dated 17th July 1893, a sum of Rs. 40,732 was provided for the above final payment of £2,396 at Rs. 17 per £, or at a little under 1s. $2\frac{1}{8}$d. per rupee.

5. The above cost will, therefore, cause an excess of Rs. 2,463-7-10 over the sanctioned amount.

6. May I, therefore, request the favour of your obtaining sanction of the Standing Committee and Corporation to the above excess being met out of the unappropriated balance, amounting to Rs. 12,739, of the $23\frac{1}{4}$ Lakhs Loan, the aggregate cost of the works to be paid out of that Loan being Rs. 23,12,261 against the sanctioned amount of Rs. $23\frac{1}{4}$ lakhs.—I have, &c.,

W. PEARSON, Acting Chief Accountant.

No. 11770 of 22*nd August* 1894.

Forwarded to the Standing Committee and the Corporation for favour of sanction.

T. S. WEIR, Acting Commissioner.

No. 5943. *Resolved:* "That memorandum No. 11770, dated 22nd instant, to the Standing Committee, from the Acting Commissioner, be referred back to him for favour of his opinion as to whether, under the terms of the contract, the Municipality are called upon to pay the amount asked for until after the machinery has been finally taken over."

No. 5944. *Resolved:* "That the consideration of the following be postponed until the Acting Commissioner has reported on the Standing Committee's Resolution No. 5943, dated this day. Report of the Commissioner (1) on the exchange effected at 1s. $1\frac{5}{16}$d. for payment of £2,396 and £654 payable, respectively, to Messrs. James Simpson and Company and Messrs. Hughes and Lancaster in connection with their contracts for the supply of machinery for the Love Grove Pumping Station, and the supply of vent-shafts, &c., for the Colaba Sewerage Works, and (2) on the exchange effected at 1s. $1\frac{5}{16}$d. for payment of £1,551, payable to Messrs. Hughes and Lancaster."

No. 5945. *Resolved*: "That, as applied for by the Acting Commissioner, in his memorandum to the Secretary, No. 11680, dated 21st instant, sanction be given to the employment of 2 Police Ramosis for duty at the Mody Bay Milch Cattle Stable on Rs. 11 each per mensem, in place of 2 Municipal peons who have been suspended for gross neglect of duty. That the difference between the pay of the Ramosis and the peons of Rs. 2 per mensem up to the end of the current year be met from the savings in the salaries of the said peons since the 5th June 1894."

In accordance with notice it was proposed by Kaikhosro N. Kabraji, Esq.—

"That the Municipal Commissioner be requested to instruct the Health Officer to lay before the Standing Committee at their meeting, every Wednesday, a copy of the weekly mortuary returns prepared by him for the week ending every Tuesday."

The motion was seconded by the Hon'ble Mr. Javerilal U. Yajnik:—

On a division there were 4 votes *for* and 4 *against* the motion which was *lost* by the vote of the Chairman.

Resolved : "That the following be *recorded* :—

No. 5947. Letter No. 11854, dated 22nd instant, from the Acting Commissioner to the Secretary, reporting that he has accepted Messrs. Littlewood and Pallonjee's offer, of Rs. 40, for the right of cutting grass growing at the Bhandarwada Reservoir from 1st June 1894 to 31st May 1895."*

Resolved : "That, as applied for by the Acting

No. 5948. Commissioner, in his letter to the Secretary, No. 11751, dated 22nd instant, the Corporation be recommended to sanction the expenditure of Rs. 558; to meet the cost of connecting the premises at Nos. 32 to 36 and No. 2, between Girgam Back Road and Khatarali, the property of Mr. Ramchandra Vithoba, with the Municipal sewer thereat, as the Health Officer reports that the premises should be connected at once. The cost to be met from the grant for House Connection works in the first Drainage Section."

Resolved : "That the following be forwarded to the

No. 5949. Acting Commissioner, in continuation of the Committee's Resolution No. 5424, dated 15th instant : Further letter, dated 21st instant, from Mr. Bechardas Morlidhur, on the subject of the drainage of his property at No. 141, Agripada."

Read letter No. 10246, dated 1st instant, from the Commissioner to the Secretary, as under :—

SIR,—With reference to Standing Committee's Resolution, No. 3979 of 11th ultimo, I have the honour to forward copy of a report No. 8857 of 1st instant from the Executive Engineer. I concur with the letter that it is out of the question to change the regular line of the street, but there will be no advantage in taking the setback from applicant now. It will be perfectly useless till the houses between it and the vacant ground marked in green are taken up. I propose, therefore, to proceed in accordance with the policy approved by the Standing Committee, to ask him to sell to us the ground within the setback line and to lease it to him for the term which will elapse until the houses referred to are also setback.—I have, &c., H. A. ACWORTH, Commissioner.

* The sale realised Rs. 43 last year.

No. 8857 of 1894-5.

Bombay, 1st *August* 1894.

To the COMMISSIONER.

On the accompanying plan marked $\frac{K}{28\text{-}6\text{-}91}$, the existing setback line is shown in blue. This line was sanctioned in your No. $\frac{19587}{21\text{-}12\text{-}93}$, in substitution of the red one, which was formerly laid down.

It is necessary to keep to the blue line as the road is a very important one, and is proposed to be made 40 feet in width. It is not considered advisable to shift the line to the opposite side of the street as nothing would be gained by it and as there is a mosque on that side. On the other hand, the advantage of keeping the setback where it is now marked is that a large plot of ground only four houses beyond the applicant's house is vacant, and will afford an opportunity of immediately widening the street at that place also—the houses on both sides of the street are almost all lofty and of equal importance in point of value and durability. The applicant's request cannot for the reasons above stated be granted, and he should be asked to make over the ground for improvement of the street.

M. C. MURZBAN, Executive Engineer.

Read also letter No. 10060, dated 20th idem, to the Commissioner, as under :—

Sir,—In accordance with the instructions contained in the resolution of the Standing Committee under No. 5230 of 8-8-94, I have the honour to report that the land comprised within the setback line has not yet been built upon. On 27th July 1894, when I had inspected the premises, the land was vacant, and no work of any kind was done or was being carried on on it. But on the 16th August 1894, the party commenced some excavations on it and he has, therefore, been served with a notice under section 353 of the Municipal Act, requiring him not to proceed with the work.—I have, &c.,

M. C. MURZBAN, Executive Engineer.

No. 11757 of 22*nd August* 1894.

Copy forwarded to the Municipal Secretary, for the information of the Standing Committee, with reference to their resolution No. 5230, dated 8th instant.

T. S. WEIR, Acting Commissioner.

Proposed by S. Rebsch, Esq., seconded by Cowasjee Hormusjee, Esq.—

"That, with reference to his letter, dated 10th instant, Mr. Vallee Peer Mahomed be informed that the improvement line of Chukla Street cannot be altered as proposed by him, and that the 20 square yards of ground or thereabout required from his property at No. 49-53, Chukla Street, must be given

No. 5950.

up to the Municipality for street improvement purposes."

Amendment moved by the Hon'ble Mr. Fazulbhoy Visram, seconded by Bhalchandra K. Bhatawadekar, Esq.—

"That, in reply to his letter, dated 10th instant, Mr. Vallee Peer Mahomed be informed that the regular line of Chakla Street as laid down by the Municipal Commissioner cannot be changed, but that it is proposed to acquire from applicant the setback ground, admeasuring 20 square yards or thereabout at the current market rate, minus the capitalized amount of rent, if any payable either to Government or the Fazindar, as the case may be, calculated at 25 years' purchase. That the Municipality will lease to him the 20 square yards or thereabout at an annual rent to be paid by him, to the Municipality in advance, calculated 6 per cent. on the total amount paid to him by the Municipality, for the absolute purchase of the land, the said rent to be paid by him until such time as either of the houses on each side of his property becomes liable to be set-back. That he pays the cost of stamping and registering the agreement. That when either house adjoining his property becomes liable to be set-back, he shall remove the superstructure which he has built over his land within the regular line of the street, and make over the said 20 yards, or thereabout, to the Municipality, clear of all encumbrances."

On a division the *Amendment* was *lost*, the votes being 4 *for* and 5 *against*. The original motion was *carried* by 6 votes *against* 5 votes.

Considered the Progress Report, up to the end of June 1894, of new works now in course of construction.*

Resolved : "That the progress report of new works in course of construction up to the end of June last be *recorded* :—

No. 5951.

"That the Acting Commissioner be asked to state why the works at Bhandarwada Reservoir (John Hay Grant), the carrying out of which was sanctioned in 1892 and 1893, have not been commenced.

* *See* Appendix D.

"That the Acting Commissioner be also asked to state with reference to item No. 76, why the cost of the land is not included in the figures relating to the Fort Fire Brigade Station."

Resolved: "That the following be laid on the table :—

No. 5952. Letter, dated 27th instant, from Messrs. Ardaseer Framjee Moos and Nanabhai N. Ranina, stating that they have audited the weekly statements of receipts and disbursements at the end of each week for the month of July last, and compared them with the general and subsidiary ledgers and journals and found them correct. Forwarding the usual summary and statement of their scrutiny of accounts.

The following statement * was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 26th August 1894.

No. 5953. *Resolved:* "That the following be forwarded to the Commissioner for disposal."

Letter, dated 24th instant, from Vittoo Dhonoo, late peon in the Drainage Department, applying for a gratuity in consideration of his services extending to a period of 17 years.

BOMBAY, *5th September* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, Esq., *Chairman*.
BHALCHANDRA KRISHNA BHATAWADEKAR, Esq., L.M. ; COWASJEE HORMUSJEE, Esq., G.G.M.C. ; THE HON'BLE MR. FAZULBHOY VISRAM ; HURKISONDAS NURROTUMDAS, Esq. ; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK ; KAIKHOSRO N. KABRAJEE, Esq. ; K. M. SHROFF, Esq. ; S. REBSCH, Esq., Asso. M.I.C.E. ; ACCACIO G. VIEGAS, Esq., L.M. & S. ; R. H. VINCENT, Esq., C.I.E. ; CAPT. W. P. WALSHE.
Surgeon Lieutenant-Colonel T. S. WEIR, Acting Commissioner ; and the SECRETARY.

The minutes of the meeting held on the 29th ultimo, were signed.

The seal of the Corporation was affixed (1) to deed of contract with Messrs. Richardson and Cruddas for the supply of 2 tidal flaps for ovoid sewers 2'-6" × 3'-9", with lifting gear and fittings required for the Umarkhadi sewerage works ; and (2) to deed of agreement with Mr. Esufkhan Fatakhan for the removal, whenever so required, of the unauthorized work erected by him on the frontage land required for new road in the Agripada district, adja-

* *See* Appendix B.

cent to Ripon Road, without his claiming any compensation for any loss, damage, &c., sustained by him by reason of the acquisition of such building.

The seal was also affixed to the following :—(*a*) To 59 attested duplicate debentures of the Bombay Municipal drainage works loan of 1878 ; Nos. 2882 to 2931, 2523-2524, 3263 to 3267, and 3544 to 3545 of Rs. 500 each ; (*b*) to 61 attested duplicate debentures of the Sanitary works loan of 1885, Nos. 10J and 4740N.N. to 4799N.N. of Rs. 500 each.

No. 6177. *Resolved* : "That, as applied for by the Acting Commissioner, in his memoranda Nos. 12568, 12569, and 12640, dated 31st August 1894, sanction be given, under section 351 (2) of the Municipal Act, to the removal of the following structures built without permission :—

Names of owners.	Where.
Mr. Hajibhoy Lalji... ...	...Privy at Walkeshwar Road.
„ Khemraj Shrikrishna ...	...Shed at the junction of Khetwadi Back Road and Khambata Lane.
Messrs. Alibhoy Karmali Surji and Khimji Gulam Husain ...	Shed at the junction of Samuel Street and Chinch Bunder Street."

No. 6178. *Resolved* : "That, as applied for by the Acting Commissioner, in his memorandum No. 12990, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

Considered the following :—

No. 3274.

GENERAL DEPARTMENT,

BOMBAY CASTLE, *30th August* 1894.

Letter from the Municipal Commissioner for the City of Bombay, No. 11344, dated 16th August 1894 :—

"With reference to Government Resolution No. 3027 of 13th instant, appointing Dr. T. S. Weir to act as Municipal Commissioner during my absence on leave, and to section 57 of Bombay Act III of 1888, I have the honour to request that Government will be pleased to give orders as to the pay Dr. Weir is to receive. When acting for me in 1891 he received Rs. 2, 500 a month."

RESOLUTION.—Government are pleased to fix Surgeon-Lieut.-Colonel Weir's salary at Rs. 2,500 while acting as Municipal Commissioner for the City of Bombay, in accordance with Government Resolution No. 3027, dated 13th August 1894.

G. S. CURTIS,
Under-Secretary to Government.

No. 12625 OF 1894-95.

31*st August* 1894.

Copy forwarded for information, to the Standing Committee, and the Corporation. Sanction is requested to the payment from Surplus Cash Balance of Rs. 7,462-5-10, being the amount of salary from 18th August to 16th November 1894 inclusive. There is a balance of Rs. 53,021-3-1 available.

T. S. WEIR, Acting Commissioner.

No. 6179. *Resolved* : "That memorandum No. 12,625, dated 31st ultimo, from the Acting Commissioner to the Secretary, be *recorded*.

2. "That the Corporation be recommended to sanction the grant of Rs. 7,462-5-10 from Surplus Cash Balance to meet the salary of Surgeon-Lieutenant-Col. T. S. Weir, while acting as Commissioner."

Considered letter No. 12993, dated this day, from the Acting Commissioner to the Secretary, as under :—

SIR,—As section 85 of the Municipal Act provides for acting appointments when an officer is absent on leave, it is necessary that I should be formally allowed leave as Health Officer before any one can be appointed to act for me. I, therefore, request that the Standing Committee will, under section 84 (2), formally grant me leave of absence as Health Officer for two months and thirty days from the 18th ultimo, *i.e.*, for the period during which I act as Commissioner.—I have, &c.,

T. S. WEIR, Acting Commissioner.

No. 6180. *Resolved* : "That with reference to letter No. 12993, dated this day, from the Acting Commissioner to the Secretary, and in order to allow of Surgeon-Lieutenant-Colonel T. S. Weir, acting as Municipal Commissioner, as per Government Resolution No. 3027, General Department, dated 13th ultimo, the Standing Committee, under section 84 (2) (*b*) of the Municipal Act, grant him leave of absence from his appointment as Health Officer, without pay, for a period of 2 months and 30 days, *viz.*,from 18th of August to 16th November 1894."

No. 6181. *Resolved* : "That the following be referred back to the Commissioner, with a request that he will inform the Committee of the details of the contractors' claims and of the date from which they make them :—Letter No. 12566, dated 30th ultimo, from the Acting Commissioner to the Secretary, requesting sanction to the payment of import duty to

Messrs. Framroj Pestanji and Co., on dutiable materials, in connection with the contract for constructing bigaries' chawl at Bori Bunder."

It was agreed that the further consideration of the following items be postponed until next week.

Memorandum No. 11770, dated 22nd instant, from the Acting Commissioner to the Secretary, requesting sanction to a grant of Rs. 2,463-7-10 over the sanctioned amount for engines and pumps for the Love Grove Pumping Station, due to the fall in exchange. The amount to be met out of the unappropriated balance of Rs. 12,739 of the 23¼ lakhs Loan for drainage and other works.

Report of the Commissioner on the exchange effected at 1s. 1 5-16d. for payment of £2,396 and £564 payable, respectively, to Messrs. James Simpson and Company and Messrs. Hughes and Lancaster, in connection with their contracts for the supply of machinery for the Love Grove Pumping Station, and the supply of vent shafts, &c., for the Colaba Sewerage Works. And (2) on the exchange effected at 1s. 1 5-16d. for payment of £1,551, payable to Messrs. Hughes and Lancaster.

Resolved: "That the papers forwarded with the Acting Commissioner's memorandum No. 12930, dated 4th instant, relating to renewal of lapsed grants, be circulated to the Committee and brought on for consideration at the next meeting."

No. 6182.

Resolved: "That the following be *recorded*:—Letter No. 12565, dated 30th ultimo, from the Acting Commissioner to the Secretary, reporting that he has accepted the tender of Mr. Mancherji Kavasji Guzdar, the lowest of three tenders received, for the supply of additional furniture, &c., for different offices in the Municipal Hall, at a cost of Rs. 2,156, the total of the sanctioned estimate being Rs. 2,418-8-0."

No. 6183.

Read letter No. 12806, dated 1st instant, from the Acting Commissioner to the Secretary, as under:—

'SIR,—I have the honor to request the sanction of the Standing Committee to my undertaking the work of covering the clear water channel of the Bhandarwada Reservoir at an estimated cost of Rs. 1,200.

This work was sanctioned in 1886, but was postponed when it became evident that repairs to the walls were required. Now these have been completed, and filteration will probably be continuous, it is desirable that the work should be done.

The result of the channel being open is that dust and leaves are blown in and spoil the filtered water. The light also assists to develop a growth on the walls and floor of the channel. Those members of the Standing Committee who have visited the Bhandarwada Reservoir appear to have considered the work as necessary, and the Executive Engineer also recommends the covering over.

The cost will be met out of the Surplus Cash Balance. The state of the Surplus Cash Balance is as under :—

Surplus ascertained after the closing of accounts for 1893-94 .....Rs.		1,80,786	0 0
Out of which expenditure (excluding temporary advances to be adjusted hereafter) has been sanctioned to the extent of .....Rs.	74,301-1-8		
Expenditure recommended for sanction..... „	52,263-11-3 Rs.	1,26,564	12 11
	Available Rs.	54,221	3 1

I have, &c.,
T. S. WEIR,
Acting Commissioner.

No. 6184. *Resolved*: "That letter No. 12806, dated 1st instant, from the Acting Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the covering of the clear water channel of the John Hay Grant Reservoir at an estimated cost of Rs. 1,200, the charge being debited to Surplus Cash Balance."

No. 6185. *Resolved*: "That the following be *recorded*:—Letter No. 12415, dated 29th ultimo, from the Acting Commissioner to the Secretary, reporting that he has entrusted to Messrs. Richardson and Cruddas the making of 8 rods required for the engines at the Love Grove Pumping Station, at Rs. 125 each. The cost, Rs. 1,000, to be met from the grant of Rs. 2,000 sanctioned for the purpose."

No. 6186. *Resolved*: "That, as applied for by the Acting Commissioner in his letter to the Secretary, No. 12705, dated 1st instant, sanction be given, under section 69 (*e*) of the Municipal Act,

to the variation of the contract with Messrs. Richardson and Cruddas for the supply of 8 pieces of copper wire gauge for the strainers of the different lakes, whereby the time for the completion of the contract may be extended to 4th July 1894."

Resolved: "That, as applied for by the Acting Commissioner in his letter to the Secretary, No. 12703, dated 1st instant, sanction be given, under the terms of section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. Richardson and Cruddas, for the supply of stoneware pipes, junctions, &c., for the Colaba sewerage works, whereby the date for the completion of the contract shall be extended to the 30th November next.

No. 6187.

"That sanction is given to such variation, on condition that the Municipality shall not be called on to pay any extra charge which may be incurred by the contractors on the contract, as extended, through the operation of the Indian Tariff Act."

Resolved : "That, as applied for by the Acting Commissioner in his memorandum to the Secretary, No. 12659, dated 1st instant, sanction be given under section 381 of the Municipal Act, to the service of a notice upon Mr. Khusal Nanji, calling upon him to fill up with sweet earth his low-lying ground on the north side of buffalo stable at No. 219, Tardeo Road, to the level of the nearest public road."

No. 6188.

Read letter No. 12704, dated 1st instant, from the Acting Commissioner to the Secretary, as under :—

SIR,—With reference to your No. 512, dated 16th April 1894, forwarding an extract from the proceedings of the adjourned ordinary Monthly Meeting of the Corporation, held on the 12th idem, regarding the payment of Rs. 501-6-8 to Mr. F. W. Stevens, C.I.E., for commission and professional services rendered by him to the Municipality, I have the honour to report, for the information of the Standing Committee and the Corporation, that a suit was filed by him in the Court of Small Causes for the recovery of the amount, and that the amount of the decree, Rs. 620-0-8 including costs, has been paid, under section 118 [*f.* (ii)] of the Act, out of savings on the allotment for the construction of the Municipal office buildings.—I have, &c.,

T. S. WEIR, Acting Commissioner.

Resolved : "That letter No. 12704, dated 1st instant, from the Acting Commissioner to the Secretary, on the subject of the suit filed by Mr. F. W. Stevens, for the recovery of Rs. 501-6-8 for commission and professional services rendered by him to the Municipality, be forwarded to the Corporation for information."

No. 6189.

Resolved : "That the following be *recorded* :—Letter No. 12451, dated 30th ultimo, from the Acting Commissioner to the Secretary, reporting that he has sold the right of cutting grass from the municipal ground at Agripada (13,936 square yards, lately purchased from Messrs. Raghunath Makund and others) to one Lakshman Raghu for Rs. 222-5-2, for the period from 18th July 1894 to 31st May 1895."*

No. 6190.

Resolved : "That the following be *recorded* :—Letter No. 12563, dated 30th ultimo, from the Acting Commissioner to the Secretary, reporting that he has sold, by public auction, the right of drawing toddy from 20 date trees on the Malabar Hill Reservoir to Mr. Sorabji Jamsetji Todiwalla, for Rs. 20 for one year from 1st June 1894."†

No. 6191.

The following item was struck out, the same having been already placed on the list of outstanding business :—Letter to the Secretary, No. 10255, dated 2nd ultimo, from the Commissioner, forwarding reports (1) from the Water Engineer, No. $\frac{W}{2712}$, dated 28th April 1893, and (2) from the Engineer, No. 12905, dated 20th December 1893, on the subject of charging by meter measurement for all water supplied throughout the city, instead of as at present charging on the valuation of premises, except in special cases, irrespective of the amount of water consumed thereon.

Proposed by Kaikhosro N. Kabraji, Esq., seconded by Hurkisondas Narrotumdas, Esq.—

"That the following notice of motion from A. G. Viegas, Esq., be postponed until the next meeting :—That at the next Meeting of the Standing Committee I will move that, in the opinion

No. 1693.

* The right was sold for the first time this year.

† In 1892-93 the sale realized Rs. 37.

of the Standing Committee, the existing system of charging for water should be continued, as the introduction of an exclusive meter system would be productive of hardship."

Carried.

Considered the following with reference to a Resolution of the Committee passed on the 18th July last.

Memorandum No. 15139 of 1894-95, dated 31st July 1894.

I am not aware that there is any discrepancy in this analysis, and would ask that the discrepancy be distinctly pointed out as I fail to observe it.

T. S. WEIR, Health Officer.

No. 10194 of 1*st August* 1894.

As far as I recollect, the Standing Committee were surprised at the proportion of free ammonia in filtered Vehar water, as compared with the unfiltered water.

H. A. ACWORTH, Commissioner.

Memorandum No. 17955, *dated 17th August* 1894.

The greater amount of free ammonia in the filtered water is a favourable indication. It shows that the filters are acting and are overworked.

T. S. WEIR, Health Officer.

No. 12078 of 27*th August* 1894.

Forwarded to the Standing Committee.

T. S. WEIR, Acting Commissioner.

No. 6194. *Resolved:* "That memorandum No. 12078, dated 27th ultimo, from the Acting Commissioner to the Secretary, be *recorded.*"

No. 6195. *Resolved:* "That the following be *recorded*:—Memorandum No. 12492, dated 30th ultimo, from the Acting Commissioner to the Secretary, reporting, with reference to the Standing Committee's Resolution No. 4484, dated 3rd October 1888, the transfer to the Municipal General Fund Pass-book, on the 21st ultimo, of Rs. 1,00,000 from the 23¼ Lakhs Loan Deposit Account.*"

Considered the following:—

---

* The Acting Chief Accountant reports to the Commissioner that the balances remaining to the credit of the above Deposit Account, after effecting the transfers now reported, stand as under:—

In 4 per cent. Government Paper for ...Rs. 2,63,000	=Rs. 2,74,982	5 6
In cash	„ 1,36,229	6 2
	Rs. 4,11,229	11 8

Statement of Houses or Portions of Houses

No.	Ward.	Street No.	Locality.	Names of Owners.	Description of Building.	Age of Building or date of erection [if known].	Date of fall.
1	B	1'6	Chinch Bunder 1st Street.	Prempji Ludha and others.	Temple and residence [2 storied].	Not known.	11-7-94 ...
2	B	25-29	Paydowni Street...	Beg Mahomed Haji Aboo Rahiman.	Chawl [5 storied].	Do.	23-7-94 ...
3	C	148	Mutton Street ...	Haji Sale Mahomed ...	House [3 storied].	Do.	17-7-94 ...
4	C	20	Packmodia Street.	Walji Karimji	Do. ..	Do.	19-7-94 ...
5	C	12-18	Patakwadi... ...	Bai Luxumibai	Do. ...	Do.	21-7-94 ...
	C	161	Kumbharwada ...	Ramji Vela	Do. [1 storied]	Do.	21-7-94 ...
7	C	32	2nd Cooper Street.	Cumberally Muzaferally	Do. [4 storied].	Do.	26-7-94 ...
8	C	60-66	Duncan Road ...	Narandas Atmaram ...	Do. [3 storied].	Do.	26-7-94 ...
9	C	19	Chewalwadi ...	Bai Anapurnabai ...	Do. [1 storied].	Do.	28-7-94 ...
10	D	40	Walkeshwar Road	Nowroji Framji Sayer...	Chawl [2 storied].	About 8 years old.	10-7-94 ...
11	D	44	Khaterali Lane ..	Mr. Balcrishna Bapuji..	House [1 storied] with a loft.	About 40 years old.	13-7-94 ...
12	D	Nil.	Narayen Dabholker Road [near the sea-side.]	Champanathji Maharaj.	Dharamsala or house [2 storied].	About 19 years old.	18-7-94 ...
13	D	3	Girgaum Road ...	Damodar Tapidas ...	Chawl ground floor storied.	About 20 years old.	21-7-94 ...
14	E	150	Agripada	Raghunath Shivram ..	Chawl [3 storied].	About 15 years old.	16-7-94 ...
15	E	12	Narelwadi	Bhiva Deoji	House [1 storied].	About 10 years old.	20-7-94 ..
6	E	30-32	Nabab Tank Road	Bai Avabai, widow of Pallonji Pestonji.	Ground floor building used for preparing sugar, &c.	About 50 years old.	21-7-94 ..

No. 12077 of *27th August* 1894.

Forwarded to the Standing Committee for information.

T. S. WEIR,
Acting Commissioner.

which fell during the month of July 1894.

Cause of fall.	Part fallen.	Casualties.		Estimated loss.	Whether or not action taken by the Municipality.	Whether or not warning given to the parties.	REMARKS.
		Persons injured.	Persons killed.				
				Rs.			
Wood work was decayed.	Portion of the eastern wall.	Nil.	Nil.	100	Nil.	Nil.	
Plank was decayed.	Decayed plank first floor weather frame and the cornice.	1	Nil.	10	Nil.	Nil.	
Timber was rotten.	West side wall with the gallery and privies.	Nil.	Nil.	500	...	...	Notice No. 72 of 19-7-94 was served on the owner to remove the ruinous portions.
Old age	Portion of the west wall on 1st floor.	Nil.	Nil.	200	..	..	Notice No. 78 of 21-7-94 was served on the owner.
Timber was decayed.	West side external wall of the 1st and 2nd stories.	Nil.	Nil.	250	..	..	Notice No. 80 of 24-7-94 was served on the owner.
Old age	The whole of the side wall.	Nil.	Nil.	100	...	..	Notice No. 82 of 24-7-94 was served on the owner.
Do.	East side wall of the ground and 1st stories.	Nil.	Nil.	250	..	...	Notice No. 86 of 28-7-94 was served on the owner to remove the remaining ruinous portion.
Do.	The wall in the rear portion of 1st floor.	Nil.	Nil.	300	..	...	Notice No. 87 of 28-7-94 was served on owner to remove the remaining ruinous portion.
Do.	North side wall including roof.	Nil.	Nil.	200	...	...	Notice No. 92, dated 31-7-94, was served on the owner.
Soil being softened and subsequent settlement of the foundation which is near the sea-shore and is without a proper retaining wall.	Half of the east and south rear walls with the roof above them.	Nil.	Nil.	1,500	Notice was being issued	(Warning was given on 5-7-94.)	
Old age of the house and the giving way of a post of the loft.	South and east walls and the gallery of the loft with the roof over it.	Nil.	Nil.	About Rs. 200	Nil.	Nil.	
The roof was unable to withstand the heavy wind.	The roof and portions of the north and east walls of the 1st floor.	Nil.	Nil.	About Rs. 1,200	Nil.	Nil.	
Wall having small wooden chips for footings was not able to withstand the heavy wind.	South main wall.	Nil.	Nil.	About Rs. 200	Nil.	Nil.	
Wood work in the wall being rotten.	Portion of south-east corner of the building.	Nil.	Nil.	About Rs. 500	...	...	Notice No. 71 under section 354 of the Act was served on the owner to remove the ruinous portions on 19-7-94, which was done partly by the department and partly by this owner.
Fall of a tree close by.	East wall and the roof over it.	Nil.	Nil.	About Rs. 100	Nil.	Nil.	
Wall being cracked on account of the rains.	Portion of the south wall of the main building and the east wall of the out-house	Nil.	Nil.	About Rs. 100	...	..	Notice No. $\frac{54}{354}$ was served on 31-7-94 to remove the damaged portion, which was done by the owner.

No. 10350 OF 1894-95.

Forwarded to the Municipal Commissioner for information.

M. C. MURZBAN,

Executive Engineer, Municipality.

Resolved : "That memorandum No. 12077, dated 27th ultimo, from the Acting Commissioner to the Secretary, be *recorded*."

No. 6196.

Resolved : "That, as applied for by the Acting Commissioner in his letter to the Secretary, No. 12617, dated 31st ultimo, sanction be given, under section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. Littlewood, Pallonji and Co., for the widening of the Tansa pipe embankment, near the bridges at Kasheli, so as to allow of the tram lines being kept in good order by the Municipality during the construction of the works for strengthening the embankment."

No. 6197.

Resolved : "That with reference to petition, dated 9th ultimo, from Mr. Soobrao Anandrao, the Corporation be informed that the Acting Commissioner reports that when the petitioner's shop was inspected by the Superintendent of Licenses and his staff, two kerosine oil tins full of vegetable oil and a large vessel, capable of holding four maunds, containing oil, were found on the premises, and that petitioner must therefore comply with the requirements of the Licensing Department."

No. 6198.

Resolved : "That memorandum No. 12613, dated 31st ultimo, from the Acting Commissioner to the Secretary, and its accompaniment, be forwarded to the Corporation with reference to petition, dated 7th idem, from Mr. Bechardas Morlidhar, on the subject of the drainage of his premises at Agripada."

No. 6199.

The following return was read and recorded :—

Return of fires at Home Street, Fort, Kazi Street, and Kamatipura 3rd Lane, forwarded with Commissioner's memorandum No. 12211, dated the 27th August 1894.*

The following statement † was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 3rd September 1894.

* *See* Appendix C. † *See* Appendix B.

Considered the following :—

BOMBAY, *4th September* 1894.

H. W. BARROW, Esq., Municipal Secretary.

DEAR SIR,—Herewith we beg to enclose a letter to the address of the Chairman and Members of the Standing Committee. As the matter is an urgent one, we shall feel obliged by your laying the letter before the Committee at to-morrow's meeting.—We have, &c.,

THAKURDAS, DHARAMSI AND CAMA,
Solicitors, High Court.

BOMBAY, *4th September* 1894.

TO THE CHAIRMAN AND MEMBERS,
Municipal Standing Committee.

GENTLEMEN,—Under instructions from our client, Mr. Vullee Peer Mahomed, we have the honour to address you as follows :—Our client is possessed of property bearing No. 49-53, Chukla Street, which he has recently built. The regular line of the said street having been recently altered, a portion of our client's said property now comes within the said line. As the houses on that side of the street on which our client's house is situate are substantial and well built (some of them having been built within the last 2 or 3 years), and as the houses on the opposite side of the street are small and old, our client, on the 10th of July last, wrote a letter to your Committee, requesting them to alter the improvement line to the opposite side. If this were done, there is a likelihood of the street being widened within a reasonable time, whereas by laying down the line on the side of our client's house the chances of improving the street are remote. We understand that at the last meeting of the Standing Committee our client's said letter of the 10th of July was considered, and it was resolved that the street improvement line cannot be altered, as suggested by our client, and that he should give up about 20 square yards of ground required from his property by the Municipality, for street improvement purposes. There may be difficulties in altering the street line, of which, however, our client is not aware, and he therefore does not wish to press this matter on the attention of the Standing Committee again, but he requests that the question of taking up his ground for street improvement purposes may be reconsidered. Our client's house is in a line with the adjoining houses, and the result of setting it back and acquiring a portion of his land, as proposed, would be to create a sort of recess between the two adjoining houses, and this would not improve the street materially. Knowing that a portion of his property was within the street line as altered some time ago, our client did no work on that portion of his

land which was within the set-back line, but built on the land outside such line. Our client then opened negotiations with the Municipal Commissioner, and pointed out to him that if the Municipality acquired a strip of ground from our client's property, and added it to the street, no material improvement would result. Our client offered to enter into an agreement providing that when the neighbouring houses were set back, he would give up his land, without claiming compensation for the building thereon. Our client also offered to sell his land to the Municipality at present if it was again leased to him at a reasonable rent till the time the adjoining houses were set back. Our client learnt that the Commissioner was agreeable to his proposal, and had recommended the Standing Committee to accept it. It was only after this that our client built upon that portion of his land which is within the regular line. In doing so he relied, and very materially, upon (1) the circumstance that the recommendation of the chief executive officer of the Municipality would be accepted by the Standing Committee in this case, as is usually done ; and (2) the fact that such agreements as aforesaid have been in many cases made with house owners. He was therefore very much surprised when he learnt that not only was his suggestion to alter the street line not accepted, but that it was resolved that 20 square yards of his land should be taken up. Having regard to the fact that our client built on the said land after the Commissioner accepted his proposal, for an agreement, thus showing that he in no way meant to defy the provisions of the municipal law, we submit it would certainly be a hardship upon our client if he is now compelled to remove his building and give up the land. Not only would it be a case of hardship, but we submit it would be a case of injustice as well, because no material improvement would result from acquiring his land, and in similar cases agreements of a like nature have been, and are being, made by the Municipality with house owners.

We feel sure that the Standing Committee can have no intention of being hard and unjust to our client, and we trust that on re-consideration of the question in the light of the facts and circumstances mentioned above, they will be pleased to sanction an agreement being made with our client on the usual terms.—
We beg, &c.,

THAKURDAS, DHARAMSI AND CAMA,
Solicitors, High Court.

Proposed by the Hon'ble Mr. Fazulbhoy Visram, seconded by Bhalchandra K. Bhatawadekar, Esq.—

"That with reference to letter, dated 4th instant, from Messrs. Thakurdas Dharamsi and Cama, requesting that their client, Mr. Vullee Peer Mahomed, may be allowed to retain

No. 6201.

on certain conditions, the 20 square yards of land or thereabout required from his property No. 49—53, Chukla Street, for the improvement of the line of the street thereat, sanction be now given, in supersession of the Committee's Resolution No. 5950, dated 29th ultimo, to the acquisition from Mr. Vullee Peer Mahomed of the set-back ground, admeasuring 20 square yards or thereabout, at the current market rate, minus the capitalized amount of rent, if any payable either to Government or the Fazindar, as the cases may be, calculated at 25 years' purchase. That the Municipality will lease to Mr. Vullee Peer Mahomed the 20 square yards or thereabout at an annual rent to be paid by him, to the Municipality in advance, calculated at 6 per cent. on the total amount paid to him by the Municipality, for the absolute purchase of the land, the said rent to be paid by him until such time as either of the houses on each side of his property becomes liable to be setback. That he pays the cost of stamping and registering the agreement. That when either house adjoining his property becomes liable to be set-back, he shall remove the superstructure which he has built over his land within the regular line of the street, and make over the said 20 yards, or thereabout, to the Municipality, clear of all encumbrances."

Carried.

BOMBAY, *12th September* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, Esq., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, Esq., L.M.; COWASJEE HORMUSJEE, Esq., G.G.M.C; HURKISONDAS NURROTUMDAS, Esq.; THE HON'BLE MR. JAVERILAL UMIASHUNKAR YAJNIK; KAIKHOSRO N. KABRAJI, Esq.; K. M. SHROFF, Esq.; S. REBSCH, Esq., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, Esq., L.M. & S.; R. H. VINCENT, Esq., C.I.E.; CAPTAIN W. P. WALSHE.

Surgeon-Lieutenant-Colonel T. S. WEIR, Acting Commissioner; and the SECRETARY.

The minutes of the meeting held on the 5th instant, were signed.

Mr. Cowasjee Hormusjee referring to the Committee's Resolution No. 6201, of the 5th instant, sanctioning an agreement with Mr. Vullee Peer Mahomed regarding

the temporary retention by him of ground required from him for the improvement of Chuckla Street, said he (Mr. Cowasjee Hormasjee) was informed that the resolution was *ultra vires* of the Committee as they had no power to sanction contracts beyond the period of one year.

The Acting Commissioner replied that he had asked the opinion of the Municipal Solicitors on this point.

The seal of the Corporation was affixed (*a*) to 5 Debentures of the Tansa Water Works Loan—(of the 5th Instalment for a currency of 50 years to be exchanged for those originally issued for a currency of 40 years), Nos. 19919-20 to 19927-28 of Rs. 1,000 each and (*b*) to 5 Do. do. do. Nos. 21214 to 21218 of Rs. 500 each.

The seal was affixed to deed of contract with Messrs. Gangaram Lukshman and Co., for the construction of a manual engine fire Brigade station at Naigam Tank, Dadar.

No. 6578. *Resolved*: "That, as applied for by the Commissioner, in his Memorandum No. 13174, dated 7th instant, sanction be given under section 351 (2) of the Municipal Act, to the removal of the following structure built without permission :—

Name of owner.	Where.
Bai Vazirabai	... Work executed at her premises at Nos. 4-6, Sooklajee Street.

No. 6579. *Resolved*: "That as applied for by the Acting Commissioner, in his Memorandum No. 13485, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 6580. *Resolved*: "That as applied for by the Acting Commissioner, in his Memorandum No. 13192, dated 7th instant, sanction be given to the addition of 5 per cent. import duty to bills of Messrs. R. Ramchander and Co., contractors for the supply of disinfectants, such additional five per cent., being payable under the terms of section 10 of the Import Act of 1894, of the Government of India."

Considered again the following :—Memorandum No. 11770, dated 22nd ultimo, from the Acting Commissioner, forwarding letter No. 2201 of same date, from the Acting Chief Accountant, requesting sanction to a grant of Rs. 2,463-7-10 over the sanctioned amount payable to Messrs. James Simpson and Co. for engines and pumps for the Love Grove Pumping Station, due to the fall in exchange. The amount to be met out of the unappropriated balance of Rs. 12,739 of the 23¼ lakhs Loan for drainage and other works.

Resolution of the Standing Committee, No. 5961, of 29th idem, as under :—

"That Memorandum No. 11770, dated 22nd instant, to the Standing Committee from the Acting Commissioner, be referred back to him for favour of his opinion as to whether under the terms of the contract, the Municipality are called upon to pay the amount asked for until after the machinery has been finally taken over."

Read letter No. 13273, dated 8th instant, from the Acting Commissioner, to the Secretary, as follows :—

SIR,—With reference to the Resolution of the Standing Committee No. 5961, dated 29th ultimo, I have the honour to state that we are not bound under the terms of the contract to pay the amount until after the machinery has been finally taken over, and until the Engineer has given the certificate, which will not be given until certain defects are remedied by the contractors. The amount of our claim against the contractors is Rs. 2,016, and that of the contractors against us £475-14-6.—I have, &c.,

T. S. WEIR, Acting Commissioner.

Considered again report of the Commissioner, on the exchange effected at 1s. 1 5-16d. for payment of £2,396 and £654 payable, respectively, to Messrs. James Simpson and Company and Messrs. Hughes and Lancaster, in connection with their contracts for the supply of machinery for the Love Grove Pumping Station, and the supply of vent shafts, &c., for the Colaba sewerage works. Also report on the exchange effected at 1s. 1 5-16d. for payment of £1,551, payable to Messrs. Hughes and Lancaster.

No. 6581.

Resolved: "That the report made by the Acting Commissioner, of the exchange arrangements made by him in connection with payments in London for machinery supplied for Love Grove Pumping Station and Colaba Sewerage be *recorded*.

"That the Corporation be recommended to sanction an additional grant of Rs. 2,463-7-10 to the debit of unappropriated balance of the loan for Rs. 23,25,000 for Drainage and other works, to meet excess on the last instalment payable to Messrs. James Simpson and Co., for engines and pumps for Love Grove Station, that excess being due to the fall in exchange.

"That the balance payable to Messrs. Simpson & Co., be not disbursed until the said engines and pumps are finally taken over from them by the Corporation and the claims of the Municipality against Messrs. Simpson have been adjusted."

No. 6582.

Resolved: "That the consideration of the Commissioner Memorandum, No. 12913, dated 4th instant, forwarding lists of lapsed grants be further postponed."

No. 6583.

Resolved: "That the following be *recorded*:—Letter No. 13150, dated 7th instant, from the Acting Commissioner to the Secretary, reporting that he has sanctioned the purchase of 216 tons of Powell's Duffryn Cardiff coal from Messrs. Brooks and Company, at Rs. 18-6-0 per ton, the coal being required (1) 132 tons for lighting with electricity the Arthur Crawford Markets, and (2) 84 tons for the Municipal Workshops. The amount to be debited to the respective grants."

In accordance with notice it was proposed by Accacio G. Viegas, Esq.—

That with reference to the Commissioner's letter to the Secretary, No. 10255, dated 2nd August 1894, the Standing Committee are of opinion that the existing system of charging for water should be continued, as the introduction of an exclusive meter system would be productive of hardship.

The motion was seconded by Kaikhosro N. Kabraji, Esq.

Amendment moved by the Hon'ble Mr. Jayerilal U. Yajnik, seconded by Bhalchandra K. Bhatawadekar, Esq.—

"That with reference to the recommendations contained in the Commissioner's letter to the Secretary, No. 10255, dated 2nd August 1894, regarding the supply of water through meter, the Standing Committee are of opinion that it would be premature to adopt a system of water-supply for which the public of Bombay are not yet prepared and which is calculated to operate very harshly."

No. 6584.

The *Amendment* was *carried* as a substantive motion.

Read letter No. S.D. 1046, dated 7th instant, to the Acting Commissioner, as under :—

(*Parel Sewerage Works.*)

SIR,—In returning your No. $\frac{12881}{4994}$ with 3 tenders, I have the honour to forward the accompanying statement marked $\frac{5\,A}{4996}$ from which it will be seen that the lowest tender is that of Messrs. Burn and Co. of Raniganj and Calcutta. 2. That tender cannot however be accepted under the present invitation because it does not comply with the specification, in that the pipes would not be of London made well burnt stoneware. (3). Having from the first introduction of the new sewerage system invariably used Messrs. Doulton & Co.'s stoneware, which has most completely and satisfactorily fulfilled its purpose, I should be very loth to commence at this late stage, the use of other stoneware except for very urgent reasons. (4). It is certain that no other stoneware should be now used unless it could be once for all and entirely substituted in the future for that which has hitherto been employed, and it will be seen from the accompanying statement marked $\frac{S.\,B}{4996}$ that the advantage in using Messrs. Burn & Co.'s stoneware would be in respect of straight pipes only, their rates for bends, junctions, siphons and gully traps, being much higher than Messrs. Doulton & Co.'s rates. (5.) I beg to recommend the acceptance of Messrs. Richardson and Cruddas' tender for the supply of Messrs. Doulton and Company's stoneware at the cost of Rs. 19,857 ; although 6·24 per cent. above the tender of Messrs. Burn and Co., but only 1·90 per cent. above the office estimate. 6. Messrs. John Fleming and Co. have not signed their tender, but as it is higher than the others, this omission need not be considered. The rates they give are only for those items which appear in the bill of quantities so that there could be no extention of their contract as regards other items if required.—I have, &c.,

JAMES W. SMITH, M. Inst., C. E.,
Special Drainage Engineer.

No. 13545 of 11*th September* 1894.

Forwarded to the Standing Committee.

The Special Drainage Engineer recommends the acceptance of Messrs. Richardson and Cruddas' tender for the reasons given in his 2nd, 3rd and 4th paras. In the two tenders there is a difference of Rs. 1,240.

T. S. WEIR, Acting Commissioner.

Resolved : "That, as applied for by the Acting Commissioner, in his Memorandum No. 13545, dated 11th instant, sanction be given to the acceptance by him of the tender of Messrs. Richardson and Cruddas for the supply of Messrs. Doulton and Co.'s stone-ware pipes, junctions, &c., for the Parel drainage district at schedule rates aggregating Rs. 19857·357.

No. 6585.

"The amount to be met from the sanctioned grant for the same."

Considered the following letter No. 2387, dated 5th instant, to the Acting Commissioner.

SIR,—I have the honour to request the favour of your obtaining the sanction of the Standing Committee to the sale of the Government Promissory Note for Rs. 5,000, deposited by the Electric Light and Power Company, Limited, by the Bank of Bombay, at par, as required by section 122 of the Municipal Act.—I have, &c.,

W. PEARSON, Acting Chief Accountant.

No. 12994 of 5*th September* 1894.

Forwarded to the Standing Committee for favour of sanction.

T. S. WEIR, Acting Commissioner.

The Acting Commissioner stated that after the Standing Committee sanctioned an application being made to the High Court for an order authorizing the sale of the E. E. Electric Light and Power and Co.'s deposit of Rs. 5,000 in Government Paper, the Municipal Solicitors were instructed to take the necessary proceedings.

They thereupon laid the matters before Counsel with instructions to prepare the necessary papers and move the Court for the appointment of a competent person to deal with the note, but as Counsel advised

that there is no proceeding by which the Court can be moved in a case like the present, the Bank of Bombay was asked to refer the matter to the Comptroller General, Calcutta. The Bank was informed by the Comptroller General that the endorsement of Major Strutt, as Managing Director of the Company, might be accepted as sufficient to pass title to the Bombay Municipality and to the latter (Bombay Municipality) to sell the note on condition that the balance of the sale proceeds after satisfaction of its own claims against the Company shall be put in deposit in the Bank of Bombay for the benefit of the creditors of the Company ; this condition has been accepted by the Commissioner and the bank has been informed accordingly. This note belongs to the issue of 1842-43 and as it could not be tendered for conversion into 3½ per cent. it cannot be sold at more than par.

No. 6586. *Resolved :* "That, as applied for by the Acting Commissioner, in his memorandum to the Standing Committee, No. 12994, dated 5th instant, sanction be given under the terms of Section 122 of the Municipal Act, to the sale of Government Promissory Note of Rs. 5,000 deposited by the late Electric Light and Power Company."*

No. 6587. *Resolved* : "That, as applied for by the Acting Commissioner sanction be given to the conversion of 4 per cent. Government Paper of 1835-36 of the nominal value of Rs. 4,900, belonging to the new Sanitary Works Loan Deposit Account No. 1 into 3½ per cent. Government Paper."

No. 6588. *Resolved* : "That the following be *recorded* :—Letter No. 13152, dated 7th instant, to the Secretary, from the Acting Commissioner reporting that he has accepted the offer of Pedro Pasku, of Rs. 10 for the right of catching fish and planting, and gathering shingodas in the water hole (area 6,100 square yards), called Khelaka Khadakl at Sion, from 1st August 1894 to 31st March 1895."†

* (See the Committee's Resolution No. 12518 of the 21st February 1894.)
† The right was sold for the first time this year.

Read letter No. 12966, dated 5th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to state that Messrs. Sorabji Shapurji and Company, contractors for the supply of castings for the year 1893-94 were asked in February 1894, about 3 weeks before the expiration of the contract, to supply a 48″ × 32″ branch pipe for the strainers at Ghatkoper and 10 curved pipes required for diverting the Tulsi main on Gibb's Road. They supplied the former in May 1894, but it had a crack in it, but as the work at Ghatkoper strainers was delayed on account of this casting, it was taken over on condition that they should hoop and plate the pipe and that if it fails, and has to be removed within one year from the date on which it was put in place, they should replace it, take back the metal of the present pipe and bear all the expense of removing the old and fixing the new pipe. The curved pipes have also been received, but they cannot be tested until they are placed in the ground at Gibb's Road which will not be done until November next. They have supplied all the pipes they were required to supply under the contract: They are contractors for the current year also. They therefore request that their deposit of Rs. 2,000 for the current year be made liable to claims on account of the branch pipe and the curved pipes, and that their deposit for 1893-94 be returned to them. There is no objection to this proposal and I, therefore, request the sanction of the Standing Committee to the deposit of Rs. 2,000 for 1893-94, being returned to them on these conditions.—I have, &c.,

T. S. WEIR, Acting Commissioner.

No. 6589. *Resolved* : "That, as applied for by the Acting Commissioner in his letter to the Secretary, No. 12966, dated 5th inst., sanction be given, under section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. Sorabjee Shapurjee & Co., for the supply of castings during 1893-94, whereby their deposit of Rs. 2,000 shall be returned to them, subject to their agreeing that any claims which may hereafter be recoverable from them in respect of 48″ × 32″, branch pipe for the strainers at Ghatkopar, and 10 curved pipes for diverting the main in Gibbs Road under their contract for 1893-94, shall be recoverable from their deposit of Rs. 2,000 under their contract for the supply of metal castings for the year 1894-95."

No. 6590. *Resolved* : "That letter from Hadji Usman Dawood, dated 6th instant, offering land as site for Market proposed to be erected at Currey

Road, be forwarded to the Sub-Committee appointed to enquire into the question of site for such market."

Resolved : "That the following referred to the Acting Commissioner for disposal and that the applicants be informed accordingly :—Letter, dated 10th instant, from Messrs. Kursondas Morarji and Ghirdharji Jadowji, asking that they may not be called on to remove the steps from the footpath abutting on the road side drain attached to their property at Parel."

No. 6591.

Read letter No. 3325, from the Acting Commissioner, to the Secretary, dated 8th instant, as under :—

SIR,—I have the honour to report that house Nos. 27-33 Khetwady 6th Lane, belonging to Mr. Abdul Hussein Heptula was connected under the Khetwadi District of the 1st Drainage Section, but the pipes were not extended into the home or up the gully because they would have come under the building, which was not in accordance with section 240 of the Municipal Act.

There is a well on the ground floor of the premises and a general washing place. The washing place is badly paved, and generally the house is in a very insanitary condition. The existing state of things is very detrimental to the health of the people, and further, causes a nuisance in the street. The premises have been complained of by the Health Officer and the House Connections Committee, who inspected the drainage. The house is in an insanitary condition because of the defective drainage, and the sullage now spreads itself over a large gully area and finally finds its way into an open side drain. Dr. Blaney has had much knowledge of the insanitary state of the building, and he will be able to speak to the necessity of improvement.

Under the circumstances I request the sanction of the Standing Committee and Corporation to an expenditure of Rs. 856 for making the necessary connections to the property.

The cost to be met out of the grant for house connections in the first Drainage Section.—I have, &c.,

T. S. Weir, Acting Commissioner.

Resolved : "That letter No 13325, dated 8th instant, from the Acting Commissioner to the Secretary be forwarded to the Corporation with the recommendation that sanction be given to the expenditure of Rs. 856 from the grant for House Connections, 1st Drainage Section, for completing the connection of house Nos. 27-33, Khetwadi 6th Lane, belonging to Mr. Abdul Hussen Heptula, with the Municipal sewer thereat."

No. 6592.

Resolved : "That the following be *recorded* :—Letter
No. 6593. No. 13423, dated 10th instant, from the Acting Commissioner to the Secretary, stating with reference to the Committee's Resolution No. 3673, dated 4th July last, that the Executive Engineer has been instructed to arrange for the sale of the plots of ground on Connaught and Sussex Roads."

Resolved : "That letter dated 10th instant, from the
No. 6594. Rev. E. Mortimer, Chairman of a public meeting of the residents of Colaba, on the subject of the drainage of that locality, be forwarded to the Acting Commissioner for favour of report."

Resolved : "That the following be *recorded* :—Letter
No. 6595. No. 12861, dated 4th instant, from the Acting Commissioner to the Secretary, forwarding analyses of water, as under :—

Sample of unfiltered Tulsi water taken from the inlet well of the Malabar Hill Reservoir, on the 30th August 1894.

	Parts per million.
Free Ammonia	·03
Albuminoid Ammonia	·14

Sample of filtered Tulsi water taken from syphon well (No. 1 Filter) of the Malabar Hill Reservoir, on the 30th August 1894.

	Parts per million.
Free Ammonia	·04
Albuminoid Ammonia	·10

Sample of unfiltered Vehar water taken from the inlet channel of the Bhandarwada Reservoir, on the 30th August 1894.

	Parts per million.
Free Ammonia	·015
Albuminoid Ammonia	·13

Sample of filtered Vehar water taken from filter water channel of the Bhandarwada Reservoir, on the 30th August 1894.

	Parts per million.
Free Ammonia	·02
Albuminoid Ammonia	·07

Sample of unfiltered Tansa water taken from the fire hydrant on the 27" Main in Arthur Road, on the 1st September 1894.

	Parts per million.
Free Ammonia	·01
Albuminoid Ammonia	·07

The following statement* was laid on the table :—

The statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes for the week ending 9th September 1894.

BOMBAY, 19*th September* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, Esq., *Chairman.*
BHALCHANDRA KRISHNA BHATAWADEKAR, Esq., L.M. ; COWASJEE HORMUSJEE, Esq., C.C.M.C. ; HURKISONDAS NURROTUMDAS, Esq. ; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, Esq. ; K. M. SHROFF, Esq. ; S. REBSCH, Esq., Asso. M.I.C.E. ; ACCACIO G. VIEGAS, Esq., L.M. & S. ; R. H. VINCENT, Esq., C.I.E. ; CAPT. W P. WALSHE.
SURGEON-LIEUT.-COL. T. S. WEIR, Acting Commissioner; and the SECRETARY.

The minutes of the meeting held on the 12th instant, were signed.

Resolved : "That, as applied for by the Commisioner, in his memorandum to the Secretary, No. 13932, dated 18th instant, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 6996.

Resolved : "That, as applied for by the Commissioner, in his memorandum No. 13766, dated 17th instant, sanction be given under section 351 (2) of the Municipal Act, to the removal of the following structure built without permission :—

No. 6997.

Name of owner.	Where.
Mr. Narsoo Naga.	Building at Dharavi Road."

Proposed by Cowasjee Hormusjee, Esq., seconded by the Hon'ble Mr. Javerilal U. Yajnik—

"That the list of lapsed grants forwarded with the Acting Commissioner's memorandum No. 12930, dated 4th instant, be returned to the Acting Commissioner, with the request that he will have the return amended so that it may show, (1) the dates of the original grants ; (2) those items which it is in the power of the Standing Committee to renew ; and (3) those the renewal of which will require the sanction of the Corporation."

No. 6998.

Carried.

Read letter No. 13466, dated 11th instant, from the Acting Commissioner to the Secretary, as under :—

SIR,—I have the honour to state that the only means by which Bai Sakinabai can cause the drain of her premises situated at

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* See Appendix B.

Arthur Road, to empty into a Municipal drain is by carrying the same into, through, or under the land belonging or alleged to belong to one Mr. Ratansi Adat.

Mr. Ratansi was requested, as required under section 230 of the Municipal Act, to state his objections, if he had any. His Solicitors, Messrs. Thakurdas, Dharamsi and Cama, have raised objections, but they are invalid and insufficient.

I therefore request your approval, under section 230 of the Municipal Act, to my giving an order in writing to Bai Sakinabai, authorizing her to lay the drain referred to into, through or under the land of Mr. Ratansi Adat, in the manner shown by a red line on the accompanying plan.—I have, &c.,

T. S. WEIR, Acting Commissioner.

Resolved : "That, with reference to the Acting Commissioner's letter to the Secretary, No. 13466, dated 11th instant, the Standing Committee approve under, the terms of section 230 of the Municipal Act, of an order in writing being given to Bai Sakinabai, authorizing her to lay a drain for her premises situate at Arthur Road, into, through or under the land belonging to or alleged to belong to Mr. Ratansi Adat to the municipal sewer thereat."

No. 6999.

Read the following letter No. 13463, dated 11th instant, from the Acting Commissioner to the Secretary:—

SIR,—I have the honour to state that the Health Officer has called upon Mr. Navroji Behramji Suntuk to provide water closets at his premises Nos. 65—67, Esplanade Road, and that the most convenient means by which he can cause his drain to empty into the municipal drain, at Esplanade Road, is by draining the same through the drain belonging to Bai Motlibai, in the manner shown by a red line on the plan herewith sent. Bai Motlibai was requested, as required by section 238 of the Municipal Act, to state her objections, if any, to this proposal. Her Solicitors, Messrs. Cragie, Lynch and Owen, have raised objections which the Drainage Engineer considers invalid.

The cost of the drain shewn by a red line on the plan is estimated at Rs. 261, and I propose that Mr. Suntuk may be declared joint-owner of the drain on his paying to Bai Motlibai Rs. 130-8-0, that is half of the estimated cost and on his agreeing to pay a moiety of the cost of maintaining, repairing, flushing, cleaning, and emptying the joint-drain whenever necessary. I request the approval of the Standing Committee, under section 238 of the Act, to an order in writing being issued authorizing Mr. Suntuk to join his drain with the drain of Bai Motlibai, and declaring him joint-owner thereof on the conditions mentioned above.—I have, &c.,

T. S. WEIR, Acting Commissioner.

Resolved: "That, with reference to his letter No. 13463, dated 11th instant, the Acting Commissioner be requested to amend his proposal so as to show what payment of rent or compensation he considers equitable to be paid by Mr. Suntuk to Bai Motlibai, in consideration of Mr. Suntuk being declared joint-owner of the drain."

No. 7000.

Read letter No. 13462, dated 11th instant, from the Acting Commissioner to the Secretary, as under :—

SIR,—As the site on which the Hopper in Thomas Street stands, is to be occupied by the new market building at Colaba, it is necessary to shift it to Colaba night-soil depôt. The shifting will cost Rs. 959, as estimated by the Executive Engineer. I request sanction of the Standing Committee and Corporation to an additional grant from the Surplus Cash Balance to carry out the work.

The state of the Surplus Cash Balance is as under :—

				Rs.	a.	p.
Surplus ascertained after the closing of accounts for 1893-94.				1,80,786	0	0
Out of which expenditure (excluding temporary advances to be adjusted hereafter) has been sanctioned to the extent of Rs.	1,08,248	12	4			
Expenditure recommended for sanction. „	26,978	6	5			
				1,35,227	2	9
Available balance Rs.				45,558	13	3

As the work of constructing the market is delayed, it is very desirable that the same should be taken in hand as early as possible.—I have, &c.,

T. S. WEIR, Acting Commissioner.

Resolved: "That, as applied for by the Acting Commissioner, in his letter to the Secretary, No. 13462, dated 11th instant, the Corporation be recommended to sanction a grant of Rs. 959, from Surplus Cash Balance, to meet the cost of shifting the sewage Hopper from Thomas Street to the Colaba night-soil depôt."

No. 7001.

Considered application from the Secretary, applying for the dismissal from the service of peons Shaik Ahmed and Luxmon Tanu, on the following grounds :—

Peon Shaik Ahmed joined the service on 8th July 1892. He had the following leave :—In 1892, 11 days; in 1893, 67 days; in 1894, 165 days; total days 243.

Out of 2 years since he has had eight months' leave. On the present occasion, he obtained two months' leave

on account of sickness, which leave he has overstayed by two months without permission. His whereabouts are not known to either his relatives or the substitute working for him. His work has been very unsatisfactory throughout. In one case instead of distributing the Corporation's Agenda to Councillors, he secreted them in office where they were accidentally found at a later date. For this he was suspended at the time. On another occasion he absented himself from duty without permission, and it was subsequently ascertained that he stayed away under false pretences, for this he was likewise suspended. Peon Luxmon Tanu: He joined the service in May 1889. He has had the following leave:—In 1889, 17 days; in 1890, 27 days; in 1891, 86 days; in 1892, 33 days; in 1893, 35 days; in 1894, 61 days; total days 259. His work also has been performed very unsatisfactorily. On one occasion instead of distributing notices of motion for the Corporation meeting to Councillors, he delayed doing so, in consequence of which complaints were received from Councillors. On the present occasion he was entrusted with the carriage of the minutes of the Corporation meeting held on the 6th instant, to the President, who after examining the minutes told the peon to take them to office at once. The office was open till 6 o'clock on that day for their receipt, but instead of carrying out the orders given to him, the peon took the minutes home and did not attend work the following day. No intimation was received from him and the minutes could not be found till a late hour, and they were subsequently obtained from his home. This caused serious delay, and might have resulted in the loss of the original and only copy of the minutes of the Corporation meeting.

No. 7002. *Resolved*: "That sanction be given to the dismissal, from this day, of peons Shaik Ahmed and Luxmon Tanu, the former for overstaying his leave by two months without permission, and as being practically useless for any work; and Luxmon Tanu for gross and continued neglect of duty and general untrustworthiness."

Proposed by Kaikhosro N. Kabraji, Esq., seconded by S. Rebsch, Esq.—

No. 7003. That, with reference to petitions dated 22nd June last, from Mr. Ahmed Mahomed Surti, the Corporation be informed that the pieces of ground which have been acquired from the petitioner are :—(1) 13·09 square yards at the junction of Essaji Street and Bhandarwada or Samuel Street, on 3rd February 1892. The compensation payable at the rate of Rs. 20 per square yard is Rs. 261-12-9 *less* Rs. 9-3-11 payable to the Collector of Bombay as capitalized rental or Rs. 252-8-10 net. (2) 16·31 square yards at Husenkhan Khalifa Street, added to the road before 1890. The compensation payable at the rate of Rs. 10 per square yard is Rs. 163-1-7 *less* Rs. 11-11-9 payable to the Fazindar as capitalized rental or Rs. 151-5-10. (3) 8·5 square yards at Nizam Street, added to the road on 1st August 1892. The compensation payable at Rs. 10 per square yard is Rs. 85, *less* Rs. 5-13-9 payable to the Collector of Bombay as capitalized rental, or Rs. 79-2-3.

"That the Municipal Solicitors advise that the date when the compensation first became claimable, within the meaning of section 504 of the Municipal Act, was the day on which possession of the land was taken in each case by the Municipality, and that the applicant is therefore now precluded from applying to the Chief Judge of the Small Causes Court, for an increase in the rate.

"The cheques are ready, in these cases, in the office of the Chief Accountant, for payment to Mr. Ahmed Mahomed Surti."

Carried.

No. 7004. *Resolved* : "That the consideration of the Commissioner's Administration Report for 1893-94 be postponed until the next meeting, and that in the meantime draft "review" of the same be prepared and circulated to members."

No. 7005. *Resolved*: "That the following be *recorded*:—Memorandum No. 13949, dated 18th instant, from the Acting Commissioner, reporting with reference to the Standing Committee's Resolution No. 4484, dated 3rd October 1888, the following trans-

fers made to the Municipal General Fund Pass-book during the past week :—

			Rs.	a.	p.
On 6th September 1894	(*a*) From the 23½ Lakhs Loan for Drainage and other Works Deposit Account.. Rs. 1,00,000 0 0 ,, 36,247 6 2		1,36,247	6	2
On 7th September 1894.	(*b*) From the Surplus Cash Deposit Account		78,912	4	4
,,	(*c*) From the Miscellaneous Works Loan of 1888-89 Deposit Account.		2,496	14	0
,,	(*d*) 4½ Lakhs Loan for Fire Brigade Quarters and Stations Deposit Account		2,197	4	0
,,	(*e*) New Sanitary Works Loan Deposit Account No. 1		6,043	2	3
,,	(*a*) 23½ Lakhs Loan for Drainage and other Works Deposit Account ...		3,745	5	0
		Rs.	2,29,642	3	9*

* The Acting Chief Accountant reports to the Acting Commissioner that the balances remaining to the credit of the above deposit accounts, after effecting the transfers now reported, stand as under :—

(*a*) In 4 per cent. Government Paper for .....Rs. 2,63,000=			Rs. 2,74,982	5	6
(*b*) In 4 per cent. Government Paper for..... ..... Rs.	2,89,500=Rs.	3,00,607 13 0			
In 5 per cent. Municipal Debentures for.....Rs.	18,37,000=Rs.	18,37,000 0 0			
In 4 per cent. Municipal Debentures for.....Rs.	84,000=Rs.	84,000 0 0			
		Rs.	22,21,607 13 0		
(*c*) In 4 per cent. Government Paper for .....Rs.	1,00,000=	99,625 0 0			
In 5 per cent. Municipal Debentures for.....Rs.	2,50,000=Rs.	2,50,000 0 0			
		Rs.	3,49,625	0	0
(*d*) In 4 per cent. Municipal Debentures for.....Rs.	74,000=Rs.	74,000 0 0			
In 4 per cent. Government Paper for..... Rs.	1,88,000=Rs.	1,97,987 8 0			
		Rs.	2,71,987	8	0
(*e*) In 4 per cent. Government Paper for .....Rs. 3,99,000=			Rs. 3,90,510	10	4

Considered the following :—

No. 13765 OF 17TH SEPTEMBER 1894.

Forwarded to the Municipal Secretary for the information of the Standing Committee, with reference to their Resolutions Nos. $\frac{3155}{20\text{-}6\text{-}91.}$ and 4694 of 1st ultimo.

T. S. WEIR, Acting Commissioner.

Statement showing set-back of properties sanctioned by the Municipal Commissioner, Section 298 *of the Municipal Act, during the month of August* 1894 :—

Serial No.	Ward.	Property No.	Locality.	Name of the person called upon to set back the property.	No. of square yards of land.	Executive Engineer's No. applying for sanction.
1	E		Babula Tank Road.	The Bombay Tramway Co.	67·28	1685, dated 30th July 1894.
2	D		Junction of Tardeo and Chikalwadi.	Mr. Keshowjee Jadhowjee.	6·23	8638, dated 30th July 1894.
3	D		Junction of Ridge and Walkeshwar Road.	Mr. Damodhardas Tapidas.	6·92 13·16	8858, dated 1st August 1894.
4	C		Doctor Street and Mutton Street	Mr. Ismail Beg Mahomed.	1·36 1·36	8681, dated 30th July 1894.
5	B	87·91	Sarang Street ...	Mr. Abdel Gafar Shaik Mahomed.	0·70	8686, dated 30th July 1894.
6	C		Shaik Memon Street.	Mr. Lallubhai Herachand.	7·03	8687, dated 30th July 1894.
7	D		Junction of Khetwadi Main Road and Khetwadi 4th Lane.	Messrs. Sorabji and Dinshaw Hormusji Bottlewalla.	15·50	9424, dated 9th August 1894.
8	E		Mustan Tank Cross Lane.	Mr. Haji Lall Mahomed.	4·78	9426, dated 10th August 1894.
9	D		Junction of Khetwadi Main Road and Khetwadi 2nd Lane.	Mr. Vithal Purshotum.	19·75	9253, dated 15th August 1894.
10	A		Church Gate Street.	Messrs. Sorabji R. Subhedar and others	8·67	10009, dated 29th August 1894.

No. 11785 OF 12TH SEPTEMBER 1894.

Submitted to the Municipal Commissioner, with reference to his No. 10571, of 6th August 1894.

M. C. MURZBAN,
Executive Engineer.

Resolved : " That the following be *recorded* :—Memorandum No. 13765, dated 17th instant, from the Acting Commissioner to the Secretary, forwarding statement showing set-backs of properties sanctioned by the Commissioner, under section 298 of the Municipal Act, during the month of August 1894."

No. 7006.

Resolved: "That the following be *recorded*:—Memo-
No. 7007. randum No. 9915, dated 28th July 1894, from the Commissioner, forwarding summary prepared by the Water Engineer of properties supplied by meter measurement, with payment made for water so supplied and amount of tax at 4 per cent. on assessed value of the same."

Resolved: "That with reference to their resolution
No. 7008. No. 6762, dated 13th instant, the Corporation be recommended to sanction the grant of Rs. 2,457-0-0 from the balance of Rs. 28,166-2-7, standing to the credit of the Garden Improvement fund to meet the cost (1) of deputing Mr. Jamshedjee M. Doctor, or some other suitable person, to Calcutta for instruction under Mr. Sanyal for a period not exceeding twelve months on a salary including all allowances of Rs. 150 per mensem, (Rs 1,800), (2) Rs. 112-0-0 for railway fare to and from Calcutta, and expenses on those journeys Rs. 45, and Rs. 500 honorarium payable to Mr. Sanyal.

The following return was read and *recorded*:—

Return of fires at Dharavi Road (Mahim), Warli Pakhadi and Ghogari Mohla forwarded with the Commissioner's Memorandum No. 13416, dated 10th September 1894.*

The following statement† was laid on the table:—

The statement of height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 16th September 1894.

Proposed by the Hon'ble Mr. Javerilal U. Yajnik, seconded by K. M Shroff, Esq.—

"That the Acting Commissioner be asked to include
No. 7010. in the next and succeeding issues of the Bombay Municipal list, an index showing in full the names and surnames of all Municipal employés included in the list."

Carried.

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* *See* Appendix C. † *See* Appendix B.

BOMBAY, 26*th September* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, Esq., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, Esq., L.M.; COWASJEE HORMUSJEE, Esq., G.G.M.C.; HURKISONDAS NURROTUMDAS, Esq.; THE HON'BLE Mr. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, Esq.; K. M. SHROFF, Esq.; S. REBSCH, Esq., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, Esq., L.M. & S; R H. VINCENT, Esq., C.I.E.; CAPTAIN W. P. WALSHE; Surgeon-Lieut.-Col. T. S. WEIR, Acting Commissioner; and the SECRETARY.

The minutes of the meeting held on the 19th instant were signed.

The seal of the Corporation was affixed to the following deeds of contracts :—(1) With Messrs. Brooks & Co., for the supply of 216 tons of Powell's Duffryn Cardiff coal, and (2) with Messrs. Dadabhai Hormasjee & Co., for the supply of 150 tons of ditto and 250 tons of Davison's West Hartley coal.

The consideration of the draft "Review" of the Commissioner's Administration Report for 1893-94 and the appendices thereto was proceeded with.

No. 7096. *Resolved*: That in proceeding to the consideration of the draft "Review" of the Commissioner's Administration Report for 1893-94, the Standing Committee desire to place on record their regret that copies of the report were not supplied to them in sufficient time to allow of their giving as close attention to and careful examination of details contained therein as they would have desired to have given thereto.

Para. 2, line 8. The word "this" was inserted in place of the word "the," and after the word "and," the words "also by reason of" were inserted. In line 12 after the word "Fund," the words "namely Rs. 61,224 on account of the Vehar debt, and Rs. 1,13,152 on account of the conversion" were inserted.

Para. 3, line 3, the word "as" was deleted. In line 10 after the word "last" the words "regarding the Sewage Pumping Station, Love Grove," were deleted, and in line 12 in place of the word "thereat" the words "at Love Grove Pumping Station" were inserted.

Para. 4, line 2. The word "highly" was deleted.

Para. 6, line 6. In place of the word "considerable" the word "some" was inserted, and after the word "Engineer," the words "a Committee of the Corporation has been appointed to enquire into and report on the whole subject of the future lighting of the City" were inserted.

Para. 9, line 6. In place of the word "in" the word "for" was inserted between the words "loans and the." In line 50, the word "rate" was deleted and the word "tax" inserted in its place.

Para. 12, line 7. The words "on the estimates" were inserted after the word "saving."

Paras. 19, 20, 21, 22, and 23.—After 19 the letter "A" was inserted, the figures 20, 21, 22 and 23 were deleted and the letters "B," "C," "D," and "E," inserted in place thereof.

Para. 24 was changed to 20. The words "overbridges" and "lighting" were deleted in the first line and the following inserted :—"Buildings and Roads."

Para. 25 was changed to 21. Last line after "Rs. 6,77,128," the words "showing an. increase of Rs. 3,58,529 over the figures for the previous year" were inserted.

Paras. 26, 27, 28, 29 and 30 were changed to paras. 22, 23, 24, 25 and 26.

Paras. 31 and 32 were deleted.

Para. 33 was changed to para. 27. Line 14, after the figures "269" the words "a reduction which the Standing Committee regret to observe" were inserted.

The "review," as thus amended, was adopted as follows :—

Review by the Standing Committee of the Administration Report of the Municipal Commissioner for the City of Bombay for the year 1893-94.

1. During the course of the year there were sixty meetings of the Corporation and forty-five Committee meetings ; fifty-three meetings of the Standing Committee and fourteen of Sub-Committees thereof with one hundred and twenty-four attendances for

cheque-signing and forty-nine for the audit of the Weekly Statement of Accounts. Of meetings of Committees of the Corporation convened, but not held for want of quorum, there were three ; ditto of Sub-Committees of the Standing Committee, four.

2. A short Act, I of 1894, was passed by the Bombay Legislative Council, legalizing the reduction in the amount of the monthly instalment to be paid by the Corporation on account of the Vehar Water Works Debt, from Rs. 14,600 to Rs. 9,498 from the 1st January 1893. The Act received the assent of His Excellency the Viceroy on 8th January last. By reduction in this monthly charge, and also by reason of the conversion of the Tulsi consolidated Loan of 4½ per cent. into a 4 per cent. Loan, a reduction of Rs. 1,74,376, a year, has been effected in the annual charges for Interest and Sinking Fund, namely, Rs. 61,224 on account of the Vehar debt, and Rs. 1,13,152 on account of the conversion.

3. The sewerage of Colaba on the Shone system, at a sanctioned estimate of Rs. 7,09,608, was commenced on 2nd September last, and is still under construction. The Committee appointed to report on the system of house connections best adapted to the requirements of the city have not concluded their investigations, the work of connecting buildings with the sewers is at a standstill. On the other hand, the sewerage of the Umerkhadi district at a sanctioned cost of Rs. 3,47,464 was commenced on 8th February last. The new Worthington engines at Love Grove Pumping Station are stated to be working satisfactorily.

4. The experiment of burning town sweepings by Garlick's Incinerator is reported to have proved satisfactory, and a Committee is now enquiring into the whole question of the relative merits of a general system of incineration throughout the Island, and of a return to the former plan of deporting kachra to Chimbur. The last part of the report of the Executive Engineer contains details of some interest as to the capabilities of the incinerator, and of the difficulties that have to be overcome in burning the garbage of Bombay. The urgency of the work referred to the

Committee is shown by the observations of the Health Officer, (page 466) as to the necessity of stopping further deposits of kachra on the Flats, the risk of which he considers so great, that after this year, he will refuse to continue the deposits there unless he receives special orders to do so.

5. The Falkland Road Overbridge is under construction and approaching completion, and since the close of the year under report, the long pending negotiations between Government, the Corporation, and the Port Trust, regarding the building of the Wari Bunder Overbridge and the improvement of the road communication thereat, have been satisfactorily concluded. The arrangements so entered into, include the provision of land for burying ground for the Mahomedan and Beni-Israel communities.

6. Experiments were made, and are still in hand, with a view to the improvement of public lighting by the adoption of the Welsbach gas burner, as also with regard to the best practical mode of road watering. The question of lighting generally is dealt with at some length in pages 396 to 404 of the report of the Executive Engineer. A Committee of the Corporation has been appointed to enquire into and report on the whole subject of the future lighting of the City.

7. The Commissioner alludes to the fact that the serious riots in August 1893, resulted in a general disorganization of business while they lasted and severely affected the working of the Health Department, but he adds, that no circumstance arose during the year which rendered it necessary to put into operation the Municipal Servants' Act (V of 1890). The Health Officer gives a full and interesting account of the riots and their influence on the sanitary operations.

8. No reference is made to the correspondence which took place between Government and the Municipality regarding the large increase in the Police force following on the riots, but, as the Corporation are aware, the question is still under consideration.

9. *Income and Expenditure.*—The opening balance, including recoverable advances, &c., and excluding de-

posits and minor adjustment items, was Rs. 29,84,806-1-2, or Rs. 13,84,806-1-2, in excess of the estimate. The revenue, including Rs. 4,58,699-4-2, on account of premia received on Municipal loans, for the past and previous years, was Rs. 69,62,694-10-1, making a total available for expenditure of Rs. 97,47,500-11-3. The expenditure during the year (including Rs. 2,93,848-11-11 on account of the adjustment of excesses on the Tansa Water Works and other works sanctioned out of the premia received on the different Municipal Loans, and Rs. 1,64,850-8-3 on account of investment of the balance of premia) was Rs. 69,63,928-5-2, leaving a balance of Rs. 27,83,572-6-1, to which was added Rs. 7,63,664-1-1, the amount of advances that had been made for the purchase of reserve stock for the Drainage, Water Works and General Stores Departments up to the end of 31st March 1893. This is the first occasion on which this item has been included in the workable balance of the year. Deducting from the Rs. 13,84,806-1-2, Rs. 3,55,295-10-11 for lapsed grants for 1892-93 and previous years renewed in 1893-94, and Rs. 2,50,000 reserved for improvements to the Victoria Gardens, there remained an unappropriated balance of Rs. 7,75,000, which was carried to the opening balance of 1894-95. Excluding the premia of Rs. 4,58,699-4-2 received on loans raised during the past and preceding years, the revenue proper was Rs. 63,03,995-5-11, or more than the estimate, by Rs. 1,58,175-5-11. Thus the revenue for the past year, excluding premia was less than that of the previous year by Rs. 3,61,191-10-0, although it exceeded the estimate by Rs. 1,58,175-5-11, (namely Rs. 1,52,893-3-7 on revenue proper, and Rs. 5,282-2-4 interest on the Sinking, Insurance, &c., Funds). Out of this surplus of Rs. 1,52,893-3-7, Rs. 5,836 have been appropriated in the Budget for 1894-95 and Rs. 35,643-15-1 for additional grants sanctioned in 1893-94 in excess of the amount reserved for that purpose in the Budget for 1894-95, leaving an unappropriated balance of Rs. 1,11,413-4-6. The principal items of increase over the estimate were :—General Tax and additional for Fire Brigade, Rs. 62,228-15-1 ; Wheel Tax, and Toll fees, Rs. 22,850-10-9 ; Miscellaneous Receipts, Rs. 22,145-14-11 ; Interest and profit on Invest-

ments of Surplus Loan and other balances, and Interest on Sinking, Insurance, &c., Funds, Rs. 44,589-6-8 ; and Premia, Rs. 4,58,499-4-2. The only item which showed considerable decrease was that of water tax, Rs. 38,171-13-6, due, apparently, to overestimate. Under the head of Town Duties, the total gross collections were Rs. 18,20,953-11-8, a decrease of Rs. 1,25,783-7-1, as compared with the previous year. The net revenue was Rs. 8,97,256-2-10 or a decrease of Rs. 76,672-0-2, due chiefly to a falling off in the import of timber and to heavier exports of sugar.

10. The sanctioned expenditure aggregated Rs. 77,57,545-0-1 as per details given by the Acting Chief Accountant on pages 71 to 75. Of this total, Rs. 64,30,488 was on account of the Budget sanction ; Rs. 3,55,295-10-11, on account of lapsed grants renewed ; and Rs. 9,71,761-5-2 for additional grants. Of the total of Rs. 77,57,545-0-1, Rs. 69,63,928-5-2 were expended, leaving a balance of Rs. 7,93,616-10-11, of which Rs. 1,00,000 were appropriated in the Budget for 1894-95, and Rs. 5,12,459-11-9 have been, or have to be, renewed during the current year to meet unpaid liabilities for the last and previous years. The balance left available for appropriation was thus Rs. 1,81,156-15-2. The details of the unexpended balance of Rs. 7,93,616-10-11 are furnished at pages 82 to 92 of the report.

11. The Commissioner reports (para. 34) that the balance actually available on 1st April last for future requirements, was as follows :—Workable closing balance including recoverable advances, reserve stock, &c., and excluding deposits, unexpended loan balances and other adjustment items as per (pages 94 to 97), Rs. 35,47,236-7-2 *less* lapsed grants to be renewed Rs. 5,12,459-11-9, and amount appropriated in the Budget for 1894-95 Rs. 19,50,000 ; total Rs. 24,62,459-11-9. Balance available Rs. 10,84,776-11-5. This amount, however, includes Rs. 9,03,991-1-0, on account of the value of reserve stock, (general, water works, and drainage, departments) now shown for the first time as " a recoverable advance," and if this is deducted, the net Surplus Cash Balance was Rs. 1,80,786 only.

12. The following tables show the main heads of Revenue and Expenditure as compared with the Budget Estimates for 1893-94 and the Actuals for 1892-93:—

A.

REVENUE.

Items.	Actuals for 1892-93.	Estimates for 1893-94.	Actuals for 1893-94.	Actuals for 1893-94 as compared with actuals for 1892-93.		Actuals for 1893-94 as compared with estimates for 1893-94.	
				More.	Less.	More.	Less.
Property Taxes—	Rs. a. p.	Rs.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p	Rs. a. p.
General Tax	19,39,339 3 3	17,97,596	18,59,824 15 1	...	79,514 4 2	62,228 15 1	...
Water Tax and other Miscellaneous Water Works Revenue	14,07,081 4 11	13,25,000	12,86,828 2 6	...	1,20,253 2 5	...	38,171 13 6
Halalkhor Tax, including receipts for special service	6,22,199 14 8	5,74,000	5,82,026 0 7	...	40,173 14 1	8,026 0 7	...
Wheel Tax and Toll Fees	3,44,905 6 0	3,28,324	3,51,174 10 9	6,269 4 9	...	22,850 10 9	...
Town Duties	9,73,928 3 0	9,00,000	8,97,256 2 10	...	76,672 0 2	...	2,743 13 2
Receipts from Government for Liquor Licenses and Tobacco Duty	3,30,453 1 1	3,25,750	3,30,579 4 1	126 3 0	...	4,829 4 1	...
Market Receipts	3,57,035 2 1	3,61,000	3,62,132 5 0	5,097 2 11	...	1,132 5 0	...
Returns from other property and Miscellaneous	6,90,244 12 11	5,34,150	6,34,173 13 1	...	56,070 15 10	1,00,023 13 1	...
Rs....	66,65,186 15 11	61,45,820	63,03,995 5 11	11,492 10 8	3,72,684 4 8	1,99,091 0 7	40,915 10 8
				Deduct...	11,492 10 8	40,915 10 8	
					3,61,191 10 0	1,58,175 5 11	
Net Premia on the different Municipal Loans raised between 1888-89 and 1893-94 adjusted as revenue as per Corporation's Resolution No. 9222, dated 11th December 1893, and the amount expended therefrom and the invested balance shown as expenditure, *vide* Statement C. :—							
Realized up to 1892-93. Rs. 4,10,268 1 2							
Do. in 1893-94 „ 48,431 3 0							
			4,58,699 4 2	4,58,699 4 2	...	4,58,699 4 2	
			Deduct Less...	3,61,191 10 0			
Total Rs.....	*66,65,186 15 11	61,45,820	67,62,694 10 1	97,507 10 2	...	6,16,874 10 1	...

* Excluding Rupees 7,756-2-6 on account of nominal profit on stock adjusted.

B.

EXPENDITURE.

Charges debitable to current revenue exclusive of advances and other adjustment items.	Actuals for 1892-93.	Estimate for 1893-94.	Actuals for 1893-94.	Actuals for 1893-94 compared with the actuals for 1892-93.		Actuals for 1893-94 compared with the estimates for 1893-94.	
				More.	Less.	More.	Less.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs.	Rs. a. p.
General Superintendence	1,90,919 12 11	2,38,412 7 4	2,29,517 3 6	38,597 6 7	.....	...	8,895 3 10
Assessment and Collection Dept. ...	2,52,122 8 0	2,54,571 9 5	2,42,412 8 1	.....	9,709 15 11	...	12,159 1 4
Fire Brigade	1,47,693 15 7	1,20,715 0 0	1,06,314 0 11	.....	41,379 14 8	...	14,400 15 1
Public Gardens	96,964 9 3	3,42,805 6 6	2,80,452 12 2	1,83,488 2 11	.....	...	62,352 10 4
Public Works, Ordinary	15,18,601 2 0	16,22,251 9 8	14,14,095 14 8	.....	1,04,505 3 4	...	2,08,155 11 0
Do. New	1,53,910 13 11	2,79,721 12 3	1,27,607 0 7	.....	26,303 13 4	...	1,52,114 11 8
Public Health Department	13,01,562 8 1	14,40,329 7 3	13,39,613 12 11	38,051 4 10	.....	...	1,00,715 10 4
Municipal Debt	21,97,233 2 9	23,18,530 15 2	21,27,457 6 6	.....	69,775 12 3	...	1,91,073 8 8
Police	3,63,625 7 10	3,63,345 0 0	3,30,272 4 1	.....	33,353 3 9	...	33,072 11 11
Education	87,565 5 11	91,032 0 0	88,014 10 1	449 4 2	.....	...	3,017 5 11
Hospitals and Dispensaries	49,575 14 0	57,108 0 0	52,476 8 8	2,900 10 8	.....	...	4,631 7 4
Pensions, Gratuities and Compassionate Allowances	29,845 3 9	37,499 9 0	37,499 9 0	7,654 5 3	.....	...	.....
Miscellaneous	1,55,891 6 5	1,32,522 15 4	1,29,495 5 10	.....	26,396 0 7	...	3,027 9 6
Total...Rs.	65,45,511 14 5	72,98,845 11 11	65,05,229 1 0	2,71,141 2 5	3,11,423 15 10 2,71,141 2 5	...	7,93,616 10 11
Excesses on Tansa and other works sanctioned to be met out of the premia received on the respective Loans shown as a charge against current revenue.		2,93,848 11 11	2,93,848 11 11		40,282 13 5		
Investment of the balance of the premia received on different Loans ...		1,64,850 8 3	1,64,850 8 3				
	.....	4,58,699 4 2	4,58,699 4 2	4,58,699 4 2	.....		
	65,45,511 14 5	77,57,545 0 1	69,63,928 5 2	4,58,699 4 2 40,282 13 5	40,282 13 5		
				4,18,416 6 9			
Loan Works			12,48,360 15 11				
			82,12,289 5 1				

The actuals of expenditure were less than the estimates by Rs. 7,93,616-10-11, of which Rs. 5,12,459-11-9 have to be renewed for unpaid liabilities and cost of works under construction, &c. ; the net saving on the estimates of Rs. 2,81,156-15-2 was principally on account of Engineer's Department, Rs. 62,427-4-10 ; New Works, Rs. 20,427-2-9 ; Health Department, Rs. 80,655-5-8 ; Police, Rs. 33,072-11-11; Debt charges, Rs. 54,493-9-0. There was a decrease of Rs. 69,775-12-3 under debt charges as compared with the actuals for the preceding year, partly due to the reduction in the amount of the instalment of the Vehar Water Works Debt mentioned in para. 2, and partly to the repayment to Government of the balance of the 4½ per cent. Consolidated Loan and the raising in place thereof a 4 per cent. Loan. On the whole, the expenditure of last year was less than that of the preceding year by Rs. 40,282-13-5.

The expenditure from Loan Funds on works in progress, &c., was only Rs. 12,48,360-15-11, but from the years 1889-90 to 31st March 1894, the expenditure under this head amounted to Rs. 1,63,09,710-9-1. From the details of loan works and expenditure thereon (pages 100 to 115) it will be noted that the expenditure on account of the Fifteen Lakhs Loan allotment for the construction of new Roads in Agripada and elsewhere, provided in the 35 Lakhs various Sanitary Works Loan, amounted, on 31st March last, to nearly twenty-two lakhs. Until the frontages are disposed of, the large excess over the original grant cannot be adjusted.

13. *Assets and Liabilities.*—The Assets of the Corporation are shown at Rs. 5,32,04,496-1-9, and the total liabilities at Rs. 3,73,41,634-12-0, the value of assets over liabilities being taken at Rs. 1,58,62,861-5-9. Comparing these figures with those of the previous

ASSETS.	Rs. a. p.	Rs. a. p.
I.—Balances and Investments—		
(1) Cash balance in Office and Bank Treasuries (Vide pages 191-202) ...	3,17,285 10 9	
(2) Invested Surplus Cash Balance (Vide page 202),	24,40,592 3 0	
(3) Invested Loan Fund Balances (Vide pages 202-3)	22,42,815 15 11	
(4) Invested Sinking Fund (Vide pages 118 and 201)...	8,22,614 2 0	
(5) Invested Municipal Buildings Fire Insurance, Renewal of Water Mains and Net Premia, &c., on different Municipal Loans Funds (Vide page 203)	3,83,797 8 0	
(6) Contractors, &c., Deposits in Government and other Securities (Vide page 203)	2,72,300 0 0	
		64,79,405 7 8

	Rs. a. p.	Rs. a. p.
II.—Advances Departmental and to Contractors (Vide page 202)		60,053 9 4
III.—Municipal Property—		
(1) Land and Buildings, Tulsi, Vehar, Pawai and Tansa, &c., Water Works*	3,62,85,816 2 1	
(2) Roads, Bridges and other Improvement Works	* 94,75,194 13 8	
(3) Reserve Stock (Vide page 204)	9,03,991 1 0	
		4,66,65,032 0 9
Total Assets		Rs. 5,32,64,496 1 9
Deduct—Total Liabilities		„ 3,73,41,634 12 0
Value of Assets over Liabilities ...		Rs. 1,58,62,861 5 9

LIABILITIES.

	Rs. a. p.
I.—By Various Loans (Vide pages 192-199) ...	3,67,95,173 9 2
II.—Deposits by Contractor, &c. (Vide page 200)	5,28,531 3 2
III.—Adjustment item reserved for Loan Works Establishment (Vide page 200).	17,929 15 8
Rs....	3,73,41,634 12 0

year, the Standing Committee observe that the excess value of the assets over liabilities on 31st March last was Rs. 5,76,070-14-8 less than that at the close of 1892-93. This difference is however explained by a comparison of the figures of one item, viz.:—Stock for 1892-93 and 1893-94, from which it will be seen that the value of stock at the end of 1892-93, comprising articles of Tools and Plant and Reserve Stock, amounted to Rs. 18,28,040-0-5, whilst the value of Reserve Stock at the end of 1893-94 after writing off Rs. 10,64,375-15-4 on account of the value of Tools and Working Plant in charge of the different Departments, as per the new storage rules already approved of by the Standing Committee, amounted to Rs. 9,03,991-1-0.

The invested balances on 31st March 1894 stood at Rs. 61,62,119-12-11, as against Rs. 55,14,181-8-8 at the close of 1892-93, as shown on page 118 of the report. A statement as to the liabilities in regard to money borrowed from Government and from the public is given in para. 45.

14. *Registration and Valuation of Property.*—On the 31st March last, the number of properties on the Assessment Book was 51,673, or an increase of 329, during the year. Of the total, 33,833 were buildings, 175 salt-pans, 17,665 vacant lands, including tanks, &c., 39,649 were assessed to the General Tax, 4,357 were exempted or compounded for on special terms, and 7,667 were small plots of unproductive land for which no bills were

* For the details of these two items aggregating Rs. 4,57,61,010-15-9 (Vide pages 204 to 216).

issued. In the same period, 270 buildings were demolished, 546 new buildings erected, and 247 existing properties were enlarged. The recorded gross valuation was Rs. 2,69,79,278, an increase of Rs. 5,75,746 over the previous year (and an increase of 85·24 per cent. over the valuation of 1884, in which year the new organization came in force, and when the figures were Rs. 1,45,64,507). The property taxes levied last year amounted to Rs. 37,98,264 (as against Rs. 19,32,271 in 1884, or an increase of 96·56 per cent.). There was a slight falling off in the yield of the general tax, consequent on the reduction of the additional tax for the Fire Brigade from three-quarters to one half per cent. In the Water and Halalkhor Taxes, respectively, there were increases of Rs. 14,307-7-11 and Rs. 63,721-6-3. The tax on vehicles and animals amounted to Rs. 3,32,300 (as against Rs. 2,50,833 in 1884, or an increase of 32·47 per cent.).

15. *Outstandings.*—In the same way, whilst on 31st March 1884 the outstandings were Rs. 3,88,439, on the 31st March 1894 they were only Rs. 1,50,452 (or a decrease of 61·27 per cent.), of which about half was collected by the end of July.

16. *Assessment Appeals.*—The Standing Committee note with satisfaction that there were only 30 appeals to the Court of Small Causes against valuations, of which 15 were dismissed, 3 allowed, and 12 were settled by consent and withdrawn by the appellants.

17. *Revenue Audit.*—From para. 56 it appears that the books and balances of the whole of the ward clerks were duly examined at the end of each quarter, the books in the head office being also examined with a view to ascertaining that no property liable to taxes had escaped being charged. The books relating to the tax on vehicles and animals, the revenue receipts or vouchers of the Markets, Health, Engineering and Gardens Departments, and the licenses, issued by the Licensing Department, were also examined.

18. *Drainage.*—In addition to the works referred to in para. 3 of this review, the Connaught and Sussex Roads drainage and sewerage works were under con-

struction, and were completed well within the sanctioned grant, and plans and estimates have been prepared for the construction, at an estimated cost of Rs. 29,21,927, of the sewerage of the Mazagon and Parel districts, storm-water drains, sewers, and roads for the Agripada (Old Race Course) and Mazagon districts, storm-water drains in Parel Government House Road, Supari Bag and Elphinstone Roads, and for lifting the sewage in Queen's Road. The drainage and house connections in Girgam and the Queen's Road approach completion, the brick arching over the old main drain at Arthur Road crossing (at a cost of Rs. 15,321) and the sewerage work in Parel (cast-iron pipes and ventilating shafts), costing Rs. 43,275, have been completed.

As the Carnac Bunder Night-soil pumping station is no longer used as a pumping station, the boilers are to be utilized at the Municipal Workshops, and the engines and pumps have been sold. Several additional latrines and urinals have been erected at different sites, but much as such places of accommodation are needed throughout the city, their construction is delayed on account of the objections that are raised by inhabitants who reside in the vicinity of sites proposed for such necessaries.

Storm-water drains in Dadar Road, Sleater Road, Chickalwadi, the crescent opposite the old Municipal Office, in part of Hornby Road to Bazar Gate Street, and Clive Road, and the pitching of the slopes of the storm-water reservoir, Haines Road, have been finished. The drainage sluices worked satisfactorily, although at one period (August 1893) rioters threatened the lives of some of the work-people at Love Grove, who had to work under armed protection. The use of "dermetine" for the protection of the valves of the new engines has been found of great value, but the silt still causes injury to the brass rods and rams, and the question of building silt pits is under consideration.

The Executive Engineer reports that the result of the official trials to which the new engines were subjected was eminently satisfactory. Three out of the

four pumps were tasted, and it was ascertained that each of the three is capable of pumping from 3,000,000 to 4,000,000 gallons over and above the stipulated quantity of 15,000,000 in the twenty-four hours. The coal consumption per pump per horse-power for each hour averaged slightly under three pounds, or one less than the guarantee. But the consumption cannot be kept as low as this in daily work, as the shred-lifter winch is worked with steam from the main boilers, as also the dynamo during the night. Under certain circumstances a saving could be effected by the use of the best Indian "Sanctoria" coal, but one great objection to this fuel is the large amount of smoke it produces, to obviate which the question of using mechanical stokers is under consideration. The remarks of the Health Officer regarding surface drainage and sewerage are alluded to in para. 28 of the Review.

19. *(A). Water-supply, Tansa Lake.*—The rainfall from 1st January to 31st December 1893 was 116·32 inches as against 114·55 in 1892. The heaviest fall on one day was on 18th June 8·53. The lowest water level was on 27th May 396·27, but on 28th June, after 31·85 inches of rain had fallen, the lake overflowed, and only ceased to do so on 22nd September. It is calculated that 31,548,000,000 of gallons passed over the waste weir; the highest recorded flood over the weir was 1·75. The storage above the lowest inlet on 31st October 1892 was 18,500,000,000 gallons; on 31st May 1893 11,000,000,000 gallons, and on 31st October last 17,900,000,000. The loss in the dry season, 1st November 1893 to 1st March 1894, was 5,385,000,000. In the corresponding period of the previous year this was 5,197,000,000. The approximate quantity drawn off from 1st April 1893 to 31st March 1894 was 7,401,000,000, of which about 890,000,000 gallons were passed into Vehar Lake, and the remainder was sent into the city. The heaviest draw off was in March last 682,000,000 gallons, and it is stated that the discharge during 1894 has been as large as siphon No. 6 will deliver.

From 24th to 30th September the supply was stopped for examination and repairs to the duct, but no repairs of importance were required ; the total period during which the Tansa supply was cut off was fourteen days and two hours. Bursts of the 48" main occurred at five points, and those between Ghatkopar and Chinchpokli are attributed partly to the insufficiency of air escapes.

(*B*). *Vehar Lake.*—The rainfall, 82·07 inches, was about 2·2 per cent. below the average. The heaviest fall was 5·77 on August 7th, on which day the lake overflowed and continued overflowing until the last day in September. The introduction of the Tansa water into the storage basin of Vehar and the supply of Tansa water to the city has had a marked effect in keeping up the level of Vehar. Thus, from 31st October 1892 to 31st March following, the daily loss was 1,309,000,000 gallons ; whereas, before the opening of the Tansa works, the daily loss during similar periods of six months was 18,000,000 gallons. The lowest water level on 13th June 1893 was 254·20 Town Hall Datum. The storage on 31st October 1892 was 11,555,000,000 gallons, on 31st May 1893 8,380,000,000, and on 31st October following 11,065,000,000. Between 31st October 1893 and 31st May 1893 the quantity of water received in Vehar from Tansa was estimated at 752 million gallons, or about 3,500,000 daily, between 1st June and 31st August 1893 590 million gallons were received, and from 1st November to 31st March 1894 121 millions ; from 9th August to 23rd September following 370 million gallons were received from Tulsi by overflow. It is roughly estimated that about 1,300 millions of gallons passed over the waste weir of Vehar between 7th August and 30th September 1893. On 30th August a 42" flanged pipe failed at the outlet tunnel, liberating a stream of about 50 millions per diem, which passed down the tunnel and cut for itself a deep ravine into the River Gopa. The necessary repairs could not be completed before 7th September, but during the stoppage of the supply the

Pawai water was supplied to the city. On 18th March last a 32" main at Kurla burst, corrosion was the cause, and the Water Engineer reports that that section of the main has for many years been in a critical condition, and that the question of renewing it is under consideration.

(C). Tulsi.—The rainfall was 94·07 as compared with 144·15 in 1892. The heaviest fall was on the 7th August 1893, 6·37 inches, and on the 9th of the same month the lake overflowed, and continued to overflow until 23rd September. The storage on 31st May 1893 was 901,000,000 gallons, and on 31st October following 2,132,000,000. The loss from 1st November to 31st March 1894 was 927 millions of gallons. In the corresponding period of the previous year the quantity was 928 millions. The management of Tulsi forest, the property of the Corporation, has been entrusted to the Forest Department of Government.

(D). Pawai.—The utilization of water from this lake is referred to in para. 19 above. The rainfall was 89·84, and the lake overflowed from 23rd June to 9th October.

(E). Malabar Hill and John Hay Grant Reservoirs, Distribution, Analyses of Water, &c.—The leakages in the reservoirs have been greatly reduced and various repairs and improvements are still in progress. The floor of the distributing basin, John Hay Grant Reservoir, was lifted up in two places during the rains by the pressure of ground water below, such water flowing from the hill above. This is said to bring a back pressure to bear on the walls and floor: remedial measures have been adopted, but the circumstances of the basin are such as it is feared will always be a cause of trouble. The connections of the Tansa and Vehar mains at Chinchpokli have not yet been completed owing to difficulties between the G. I. P. Railway Company and the Corporation. Considerable lengths of 9", 6", and 4" mains were laid in various parts of the city. The closing of eight dipping wells and substitution in place thereof of stand pipes was taken in hand, and 187 bursts of mains had to be attended to. The total number of dipping wells, fountains, stand pipes, &c., supplied free of charge, was

increased to 194 during the year. The number of new service connections with the mains was 633, a net increase of 370, bringing the total number up to 18,856. The rewards claimed for crocodiles and their eggs taken at the lakes were only in respect of four of the first and 64 of the last mentioned. The figures relating to analyses, temperature, and evaporation of water are given in paras. 18, 20, and 41 of the Report of the Water Engineer.

20. *Buildings and Roads.*—The construction and repair works during the year are described at length in the Executive Engineer's Report. With regard to building applications, these numbered 1,053, of which only 10 were unconditionally disapproved. In the previous year the number of disapprovals was 118. On this subject the remarks of the Executive Engineer are of some interest. Only eighteen buildings or parts of buildings fell during the year; the number of persons injured being six; but by street accidents 620 people were injured and 19 killed. Notices to the number of 4,672 were served on house-owners. The cost of repairing roads was about seven pies per square foot, the approximate expenditure being Rs. 3,75,332. In the course of the year six cross roads on the Esplanade were handed over to the Municipality by Government; and three private lanes—portion of British Hotel Lane, Sonapore Cross Lane, and Kumbhar Tukda Lane—were declared public. Owing to difficulties in the way of acquiring the necessary land, no further progress was made with the making of the proposed road through Nowroji Hill. The road from Dadar to Matunga was pushed on, and may be completed early next year; the making of the four principal new roads for Agripada progresses steadily.

21 *Fire Brigade.*—Five new stations for the Fire Brigade were completed. The total strength of the Brigade was 149; the discipline and general working was satisfactory. There were 137 fires, 22 of which were serious, and in two instances were considered open to suspicion of incendiarism. The total damage by fire and water is entered at Rs. 6,77,128, showing

an increase of Rs. 3,58,529 over the figures for the previous year.

22. *Public Gardens.*—Although no reference is made in this report to the fact, the Standing Committee would observe that, with a view to improving the Zoological Collection in the Victoria Gardens, the Corporation on 25th January last appointed a Committee to enquire into and report on the question. The report of this Committee has been submitted.

23. *Markets.*—The new market in Foras Road was occupied from 1st September last, but it has not answered, and the receipts for the six months ending 31st March were only Rs. 1,421-5-4. The mutton market extension, Arthur Crawford Markets, is chiefly used by the dealers in sheep's heads and feet, an arrangement which has relieved the frequenters of the mutton and fish markets of the unpleasant sight of the decapitated heads. The total revenue was Rs. 3,80,324, a net increase of Rs. 2,797 over the previous year. Of fruit and vegetables the supply was fair, and that of mutton and beef plentiful and cheap. The weight of the unwholesome food destroyed was 21 tons 3 quarters and 2 pounds.

24. *Public Health and Vital Statistics.*—The condition of public health was more satisfactory than in the previous year, although the Health Officer does not expect that the improvement will continue. The total number of deaths registered, exclusive of still-born from all causes, was 23,142, equal to a death-rate of 28·16 per 1,000 of population calculated on the Census of 1891 (8,21,764). This was a decrease of 3,376 as compared with the previous year, and 197 less than the average of the last five years (23,484, or a death-rate of 28·10 per 1,000). There was a decrease in all the chief death causes, though deaths from accidents showed an increase of 61, owing to the 82 deaths registered as due to the riots in August 1893. The death-rate was highest among the small community of Negro-Africans, as in former years, and was in the ratio of 47·94 per 1,000. The next highest ratios were among Jains 13·43, and Lingaets 12·75. The lowest ratios were Jews 2·38, and Europeans 2·65.

The causes of mortality were fevers 5,844, diseases of the respiratory system 4,551, bowel complaints 1,698, injuries 453, measles 289, small-pox 201, cholera 147, all other causes, except still-born, 9,959. Taken by districts, the highest mortality was as follows:—2nd Nagpada, 47·10; Parel, 39·07; Kamathipura, 38·69; Khara Talao, 37·28; Tardeo, 37·03; Chukla, 36·02; Mandvi, 35·98; Oomerkhadi, 34·02; 1st Nagpada, 32·15; Girgam, 31·74; the lowest ratios were Water Division, 3·29; Fort (South) 4·04; Mahalaxmi, 13·28; Chaopati, 13·63; Walkeshwar, 14·08; and Esplanade, 15·89. Whilst remarking on the slight improvement shown by these mortality returns, the Health Officer enlarges on the urgent necessity of effective measures again being adopted for the carrying off of the immense quantity of sub-soil water with which the ground is saturated day by day. Since the new pumps at Love Grove came into use, there have been improvements, as the backward flow of sewage has ceased and accumulation of silt has been less, but in the forenoon the sewers of the new system are full. The new system of drainage will in a few years effect great improvement, but although it is expected that the sewerage of Colaba on the Shone system will be completed next year, it cannot come into operation until some system of house connections has been sanctioned. His observations, pages 478-481, regarding the most simple and effective method of house connections will be read with interest.

Of the dead, 15,528 were buried, 7,987 burned, and 1,137 carried to the Towers of Silence.

25. *Birth Registration.*—Of births registered, the total of living and still-born was 15,218, being 267 less than in the previous year. Of the living, 7,875 were males and 7,343 females. The birth-rate was highest among Negro-Africans, 95·89 (14 among a total of 146). The next highest were low-caste Hindus, 31·96; Parsees, 28·84; Eurasians, 27·94; Jews, 27·08; Mussalmans, 19·91. The lowest ratios were Brahmins, 8·79; Lingaets, 14·03; Bhattias, 15·96; Hindus of other castes, 16·34; Europeans, 17·36. It has to be remembered that there is an enormous preponderance of males in the population, and that therefore the birth-

rate is not so low as it seems. In fact, the Census Commissioner considered the birth returns to be correct.

26. *Work of the Health Department and cost thereof.*—The average number of work-people employed, daily, was 4,337·94 men and women ; 1,084 scavenging and drain carts and 202 night-soil and cess-pool carts. The garbage collected and disposed of amounted to 315,251 tons, or 863 tons a day, as against 318,194 tons in the previous year. Of night-soil 138·139 tons, or 378·4 tons a day, were collected and disposed of as against a total of 180,480 in 1892. More than 195 miles of covered drains were opened and cleaned as against 182 miles in the previous year. The live-stock included 4 horses and 2,261 bullocks, of which last mentioned 153 died, which was a small mortality, and 76 were sent to Pinjrapool. The total expenditure on the department, including vaccination as shown by the Chief Accountant, was Rs. 11,93,566-7-8, but as it earned Rs. 6,61,789-7-3, including receipts from vaccination, but deducting proportionate cost of the Assessment and Collection Departments, in respect of the Halalkhor tax, the net cost to the Municipality was Rs. 5,31,777-0-5.

27. *Education.*—The grant for Education was Rs. 91,082 as against Rs. 87,720 in the previous year. This grant included Rs. 1,000 for female medical scholarships ; Rs. 1,800 towards school for deaf-mutes; Rs. 2,500 for the Veterinary College ; Rs. 11,200 for the Victoria and Albert Museum ; Rs. 10,000 for the Victoria Jubilee T. Institute ; and Rs. 64,532 for primary education. The income of the Joint Schools Committee, including an opening balance of nearly Rs. 27,000, was Rs. 1,34,786-3-4, of which a little less than one lakh was expended, leaving a balance of Rs. 34,970-8-4. The total number of scholars on the rolls at the close of the year was only 6,123, showing a reduction of 269, a reduction which the Standing Committee regret to observe. Of the 34 Marathi Schools, with 3,489 pupils, 29 were for boys and 5 for girls. The 30 Guzerathi Schools, attended by 2,634 scholars, include 25 for boys and 5 for girls. Approximately, there were 6,227 pupils attending aided schools and 10,563 attending unaided schools, a

total altogether of 22,913. Of the 6,123 attending the Municipal Schools, 1,056 were girls, but the Joint Schools Committee estimate that taking the school-going age to be between 5 and 15 the proportion of female scholars throughout the city is only 8·7 per cent.

28. *Report of the Municipal Auditors.*—The annual report of the auditors contains the usual information regarding their daily audit of the accounts as well as useful details relating to various heads of income and expenditure.

In accordance with the terms of Section 124 (3) of the Municipal Act, the Standing Committee direct that all the printed appendices attached to the report of the several heads of departments, as received from the Commissioner, be circulated with his report for the information of the Corporation.

No. 7097. *Resolved* : "That, as applied for by the Acting Commissioner in his memorandum to the Secretary, No. 14427, dated 25th instant, sanction be given to the cutting off of water connections as per list submitted therewith."

Considered again memorandum No. 111461, dated 14th ultimo, from the Commissioner to the Secretary ; also the Committee's Resolution No. 1135 of 2nd May 1894.

Read the following :—

Letter No. 9429, dated 9th August 1894, to the Commissioner.

SIR,—With reference to the Standing Committee's Resolution No. 1135, dated the 2nd May last, received under your (No. 2976, herewith returned) of the 8th idem, I have the honour to report that it is not possible for me to check the expenditure from the documents submitted to me.

2. It appears that an expenditure of nearly Rs. 40,000 has been incurred during the past year in the purchase of various articles for various works, and it is not possible for me to say at this stage whether they were actually required for those works or not, and the only course now is to accept the Water Engineer's certificate that they were correctly received and properly applied for the purposes for which they were obtained.

3. To give the Standing Committee a general idea of the various works for which the materials were obtained, I attach a statement marked "A," in which some of the important items

of materials, the purposes for which they were obtained and the amounts paid for them are shown.

4. It will be observed from this statement that there are several works, such as for instance—

Item No. 10.—Stone paving for Bazaar Gate Fountain ; Item No. 18, Painting Pawai, Vehar and Tulsi Bungalows.

Item No. 23.—Painting wood work in Bombay.

Items Nos. 30 to 33 and 35 to 38, Painting Creek Bridges, &c., which were not of a very urgent character. And it would have been better perhaps to have deferred their execution until the sanction of the Standing Committee to the excess over the Budget grant was obtained.

5. It also appears to me that the system of keeping accounts for materials in the Water Department is susceptible of improvement. Instead of putting a lump sum of Rs. 35,000 in the Budget to which all kinds of materials for all kinds of works are charged, it would be well to provide for the several works separately, so that accurate and reliable accounts of expenditure could be kept on each work For instance separate provision should be made for—1, Repairs to Water Works buildings in Bombay; 2, Repairs to Bungalows at Vehar, Tulsi, Pawai, and Tansa ; 3, Painting of bridges over the creeks ; 4, Painting Stand Pipes and Fountains, &c., &c.

All these works could be foreseen and accurate estimates prepared before undertaking them. A lump sum may be charged for the execution of unforeseen works such as bursts in pipes.

6. A register of each separate work shown in the Budget should be kept in the Head Water Works Office showing the monthly expenditure on each work, as I am doing in the case of buildings and roads (a sample of which is attached). This will enable the Water Engineer to check without difficulty the expenditure from time to time and to keep it within the grant for each work.

7. This system prevails in the Drainage, Streets, and Buildings, and the Health Departments. For example, under the head of "repairs" in the Health Department Budget of 1894-95 (page 59) repairs to chawls, stables, chowkies, &c., to roads, dust-bins, carts, are all separately shown. In like manner in the Drainage and Streets and Building Departments, repairs to roads, buildings, drains, chowkies, &c., are all separately provided for, and the same system should, I think, be adopted in the Water Department.

8. In my No. 6495 of 29-6-94, I have suggested that a similar arrangement should be adopted in regard to the items charged under the head of "Contingencies."

9. Until the plan above proposed is adopted there will always be a difficulty in checking the annual expenditure and keeping it within the Budget grant.—I have, &c.,

M. C. MURZBAN, Executive Engineer.

Consecutive Numbers.	Description of Articles.	Time.	Quantity.	Weight. cwt.	qr.	lbs.	oz.	Rate. Rs.	a.	p.	Per	Amount. Rs.	a.	p.	Remarks.
		1893.													
1	Dial, Complete	March ..	10	...	...	...	...	8	14	4	Each	88	15	4	For repairing Siemen's Meters let out on hire.
2	Collar C. I., 24"	April ...	2	17	...	...	..	7	0	0	Cwt.	119	0	0	Repairing 24" Joint Clerk Road.
3	Lamps, H. Hinks'	May ...	36	...	...	...	...	2	10	0	Each	94	0	0	For general use when repairing bursts at night, &c.
4	Lamp do., with Chimney and Globe.	" ...	1	...	...	...	...	7	8	0	...	7	8	0	For use on Tansa Line as an experiment, special sanction obtained to its purchase.
5	Oil, Linseed, boiled	" .	galls. 50	...	...	...	...	1	13	0	gall.	90	10	0	Painting stand pipes and fountains.
6	Paint mixed white zinc, Hubback's	" ..	.....	4	...	..	...	27	0	0	Cwt.	108	0	0	
7	Pipe C. I., 27"	" ...	1	33	3	...	...	5	4	0	...	177	5	0	Burst at Chinchpokli.
8	Rope, Manilla	" ..	.....	5	...	14	...	32	8	0	...	166	9	0	For general use for lifting heavy loads and pipes.
9	Spanner's screw or M. W. 14... ...	" ...	24	...	...	...	...	0	5	6	In.	115	8	0	For workmen for general use.
10	Stone paving, fine-dressed ...	" ...	28S	...	...	...	...	400	0	0	1,000	115	3	3	For Bazar Gate fountain.
11	Stoneware, pipe	" ..	57	...	...	...	...	...	...	...	...	87	14	4	For Tulsi pipe line culverts.
12	Teakwood Scantling M., 1st class ...	" ...	c.ft. 116·99	...	...	...	...	95	0	0	50 c. ft.	222	4	5	For replacing old broken joists of the different culverts and repairs to trollies.
13	Pipe, stoneware, 9"	June ...	150	...	...	...	...	0	8	0	Each	75	0	0	For Tulsi pipe line.
14	Rafters, teakwood, 4"	" ...	80	or	12	00 R	ft.	10	0	0	100 R. ft.	102	0	0	For roofing Kapurbaodi store-room and general use.
15	Wire-cloth, copper	" ...	s. ft. 1,106	...	...	...	...	0	10	0	S. ft.	691	4	0	-trainers at Lakes.
16	Collar C. I., 27"	July ...	2	14	1	10	...	7	0	0	Cwt.	100	6	0	Bursts (2) Arthur Road.
17	Oil, Cocoanut	" ...	.....	3	2	24	...	16	4	0	"	60	5	9	General purposes and oiling sluice valves.
18	Paint, mixed, Chocolate	" ...	.....	10	...	...	...	11	10	0	"	116	4	0	For painting Pavai, Vehar, and Tulsi Bungalows and Towers, & also Creek bridges.
19	Do. do White Zinc, Hubback's	" ...	.....	10	...	...	...	27	0	0	"	270	0	0	Do. do. do. do.
20	Pipe C.I., 27"	" ...	2	65	2	14	...	5	4	0	"	344	8	6	Bursts (2) Arthur Road.
21	Rope, Manilla	" ...	.....	5	2	14	...	32	8	0	"	182	3	0	In yard for handling heavy materials.
22	Teakwood log M., 1st class	" ...	c.ft. 153·125	...	...	...	...	78	0	0	50 c. ft.	238	14	0	For replacing old broken joists of the different culverts and repairs to trollies.
23	Paint M. white zinc, Hubback's ...	August ...	4	4	...	...	...	27	0	0	Cwt.	108	0	0	For painting woodwork in Bombay.
24	Pipe, double Flange C.I., 42"... ..	September...	2	86	...	12	...	7	0	0	"	602	12	0	Burst, Vehar Tunnel.
25	Wire-cloth, copper	October ...	s. ft. 812	...	...	...	...	0	10	0	1 S. ft.	507	8	0	Strainers at Lakes
26	Bent teakwood planks, 1st class ..	November..	c.ft. 72	...	...	...	..	69	0	0	50 c. ft.	99	5	9	For scaffoldings and other works for protections.
27	Cord, balance	December...	1050	...	...	...	...	0	7	0	Each	459	6	0	For Deacon's Meters.
28	Bolt, brass, nuts and washers ...	,,	.....	5	...	1	...	B. R.	No.	123	...	459	9	0	For Keshile Bridges.
29	Iron, Bar, Lawnmoor	,,	.....	8	...	...	..	17	0	0	Cwt.	136	0	0	For repairing waggons, trollies, and general use.
30	Oil, Linseed, boiled	,,	galls. 89½	...	...	...	...	1	13	0	gall.	162	3	6	Painting Creek Bridges
31	Paint, mixed, Chocolate	,,	....	20	...	...	..	14	0	0	Cwt.	280	0	0	Do. do.
32	Paint, mixed, oxide of iron, red ..	1894	....	10	...	...	...	16	0	0	...	160	0	0	Do. do.
33	Bolts, and nuts and washers, brass ..	January ...	....	5	...	...	...	B. R.	No.	118	..	156	6	3	For Creek Bridges.
34	Cement, Portland	,, ...	....	419	3	...	...	2	9	2	Cwt.	1,079	15	8	Principally for rebuilding culverts on siphon No. 6, which collapsed during the monsoon.
35	Oil, Linseed, boiled	,, ..	galls. 255	...	...	...	..	1	13	0	gall.	402	3	0	Painting Creek Bridges.
36	Paint, Chocolate	,, ...	....	16	2	...	...	11	0	0	Cwt.	191	13	0	Do. do.
37	Paint, M., red	,, ...	....	37	2	..	..	11	10	0	...	435	15	0	Do. do.
38	Turpentine, Europe	,, ...	galls. 120	...	...	...	...	2	5	6	gall.	281	4	0	Painting Curla Creek bridges.
39	Iron, Bar, Lawnmoor	February ...	.....	15	2	14	...	17	0	0	Cwt.	265	10	0	For making clamps, &c., and general use.
40	Lime	,, ..	c.ft. 1,900	...	..	...	...	25	.	0	100 c. ft.	475	0	0	For rebuilding culvert on siphon No. 6 which collapsed during the monsoon.
41	Rubble, stone	,, ...	c ft. 1,650	...	...	...	...	7	0	0	...	115	8	0	Do. do.

No. 11146 OF 14TH AUGUST 1894.

Forwarded to the Standing Committee with reference to their Resolution No. 1135, dated 2nd May 1894. The Water Engineer will be instructed to carry out the suggestions made by the Executive Engineer in his paras. 5 and 6. The total expenditure debitable to the grant for the purchase of materials for the year 1893-94 is Rs. 39,452-0-7. The excess of Rs. 4,452-0-7, over the grant of Rs. 35,000, can be met out of Surplus Cash Balance, out of which there is a balance of Rs. 66,930-14-4 available.

H. A. ACWORTH, Commissioner.

No. 7098.

Resolved : "That memorandum No. 11146, dated 14th August 1894, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the grant of Rs. 4,452-0-7 from Surplus Cash Balance to meet excess on the grant for 1893-94 for materials, water works.

"The Standing Committee regret that these excesses were incurred without previous reference to them as required by the standing orders (Resolution of the Town Council) No. 1585, dated 7th November 1883."

No. 7099.

Resolved : "That, with reference to the Acting Commissioner's letter to the Secretary, No. 14309, dated 24th instant, the Standing Committee approve, under the terms of section 19 (6) of the Municipal Act, of a fee of Re. 1 per copy being charged for the sale of copies of the preliminary Election Roll, which has to be published on or before the 9th proximo."

Considered letter No. 14033, dated 19th instant, from the Acting Commissioner to the Secretary, as under :—

SIR,—With reference to the Resolution of the Corporation, No. 2485, dated 16th June 1892, sanctioning, out of savings on the grant of Rs. 63,360 for laying 24" main in Queen's Road, Rs. 7,164-8-0 to meet the cost (1) of making a connection at Chinchpokli between the Tansa 48" main and the Vehar 32" main, so that Tansa water can be supplied to Bhandarwada Reservoir ; (2) of connecting the 32" Vehar main in Parel Road with the Arthur Road 27" main ; and (3) of connecting the 24" Vehar main in Parel Road with the 27" main in Arthur Road in order to supply Vehar water into the Arthur Road 27" main, I have the honour to state that Messrs. George Gahagan and Co., who were contractors

for the supply of castings at that time, were asked, on 18th June 1892, to supply the special castings required for this purpose. But after struggling with the castings for some months and failing to turn out satisfactory pipes, they in December 1892 asked to be allowed to import them as they could not cast them here, or that the order might be cancelled. The order was then transferred to Messrs. Pestonji Master and Co., but they were not able to turn them out quickly and the fair season was lost. In August 1893 Messrs. Master & Co., having failed and their works closed, the order was given to Messrs. Richardson and Cruddas at Messrs. Master and Co.'s risk. They supplied the pipes and the work was proceeded with in December 1893. It is now completed, as far as practicable, until the work of connection with Vehar 32" main is permitted to be done by the G. I. P. Railway Company, who prescribed certain conditions before allowing our men to enter on the land within the railway fence and proceed with the work. The nature of the dispute with the Railway Company has been described at length in this office No. 24529, dated 14th February 1894, addressed to the Municipal Secretary, and the Standing Committee have in their Resolutions, Nos. 13977, dated 20th March 1894, and 994, dated 25th April 1894, sanctioned the filing of a suit in the High Court against the G. I. P. Railway Company, and an application for an injunction restraining the Company from preventing Municipal servants from entering on the Company's land at Chinchpokli level-crossing for the purpose of making a connection between the Vehar 32" and Tansa 48" mains thereat. The Municipal Solicitors have been instructed accordingly, and they are taking the necessary proceedings in the matter. It will thus be seen that delay has been due to the difficulties in getting the castings, and that the work cannot be completed until the dispute with the G. I. P. Railway Company has been settled. The site of the work is part of an old tank filled in to form a depôt for the Tansa pipes, and the general want of drainage in the locality also assists in keeping up a high water level. In consequence of this the difficulties by slipping of material into trenches have been great, and as the work has been so delayed and the trenches kept open for an unusual length of time, extra expense has been incurred, and the contingencies have been exhausted. The Executive Engineer considers it necessary to fix a 21" sluice valve on the proposed 20" branch from the 32" main as proposed by the Water Engineer, and reports that if this additional sluice valve is not provided and if the single 20" sluice valve should get out of order, the supply, both from the 32" Vehar and the 27" Tansa mains, would be stopped until the repairs to the 20" sluice are effected. The cost of the 21" sluice valve including tail pieces and chamber, &c., is Rs. 600. It is important that it should be isolated, so that the Vehar 32" and Tansa 48" mains may not both be affected by any defect on the

20" main or its sluice valve. The Executive Engineer recommends the carrying out of the above work, and I, therefore, request the sanction of the Standing Committee and the Corporation to the payment of Rs. 600 from available surplus loan and other balances, pending the inclusion of the total cost of the whole work in a future loan.—I have, &c.,

T. S. WEIR, Acting Commissioner.

No. 7100. *Resolved:* "That letter No. 14033, dated 19th instant, from the Acting Commissioner to the Secretary, be forwarded to the Corporation with the recommendation that sanction be given to the expenditure of Rs. 600 for fixing a 21" sluice valve on the 20" branch of the 32" Vehar water main at Chinchpokli. The amount to be met as an advance from Surplus Cash Balance to be adjusted hereafter."

No. 7100A. On the motion of Cowasjee Hormusjee, Esq., seconded by the Hon'ble Mr. Javerilal U. Yajnik, it was agreed that the consideration of letter to the Secretary, No. 13927, dated 18th instant, from the Acting Commissioner, on the subject of the improvement of Chinch Bunder Road, be postponed until the Budget estimates for next year are before the Committee.

No. 7101. *Resolved:* "That the following be *recorded*, and that the Acting Commissioner be asked to expedite the information called for by the Committee in their Resolution No. 5215, dated 8th August last:—"

Letter No. 14079 of 1894-95, dated 19th instant, from the Acting Commissioner to the Secretary, as under :—

SIR,—With reference to the concluding para. of this office No. 10590A, dated 6th ultimo, I have the honour to report, for the information of the Standing Committee and the Corporation, that 30 men and 10 women were employed on the 8th idem, and the Sub-Inspector on the 13th idem, and that their services were dispensed with on the 14th instant. The total has been Rs. 424, which will be paid out of Surplus Cash Balance as sanctioned by the Corporation in their Resolution No. 6526, dated 10th instant.—I have, &c.,

T. S. WEIR, Acting Commissioner.

Resolved . "That the following be *recorded* :—Letter
No. 7102. No. 13837, dated 17th instant, from the Acting Commissioner to the Secretary, reporting with reference to the Standing Committee's Resolution No. 13228, dated 7th March 1894, that the actual cost of the work of cleaning the open main drain running through the flats to the Storm Water Reservoir has been Rs. 2,551-9-3, which will be debited to the provision of Rs. 2,599."

Resolved : "That the consideration of item No. 10
No. 7103. on the agenda paper on the question of the improvement of First Marine Street be postponed until the next meeting."

Resolved : "That the following be *recorded* :—Me-
No. 7104. morandum No. 14265, dated 22nd instant, from the Acting Commissioner to the Secretary, forwarding list of houses or portions of houses which fell during the month of August 1894."*

Resolved :—"That the following be forwarded to the Acting Commissioner for favour of remarks :—

Letter, dated 22nd instant, from Messrs. Little, Smith,
No. 7105. Nicholson and Bowen, requesting that the Standing Committee will reconsider the charge of Rs. 1,470-8-0 for water supply to the Madhowjee Dharamsi Manufacturing Company."

Resolved : "That with reference to petition, dated 21st
No. 7106. August 1894, from Mr. Bechardhas Morlidhur on the subject of the drainage of his property at No. 141, Agripada, the Corporation be informed that the Acting Drainage Engineer reports that the Magistrate issued the warrant against applicant because he failed to attend the summons which had been issued against him. As, however, he complied with the terms of the notice served on him, the case against him was withdrawn from the Police Court on the 28th idem."

* A portion of the north wall of a godown used for cleaning wool, &c., the property of Hadji Sale Mohomed Hadji Ahmed, situated at Tank Street, the damage is estimated at Rs. 150, three persons were injured, and one killed. The cause of fall was the decayed condition of mortar and weakness of the wall, which gave way suddenly whilst some frame work, which was to be fixed in it, was being inserted. The jury, who sat on the dead body, returned a verdict of accidental fall.

Resolved: "That the following be forwarded to the Acting Commissioner for favour of remarks :—

No. 7107. Letter dated 24th instant, from Mr. Dossabhai Sorabji, on the subject of the demolition of his property at 1st Pinjrapole Street or lane."

Resolved: "That the following be laid on the table :—

No. 7108. Letter, dated 24th instant, from Messrs. Ardaseer Framjee Moos and Nanabhai R. Ranina, stating that they have audited the weekly statement of receipts and disbursements at the end of each week for the month of August last, and compared them with the general and subsidiary ledgers and journals and found them correct. Forwarding the usual summary and statement of their scrutiny of accounts."

The following statement * was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes for the week ending 23rd September 1894.

BOMBAY, *3rd October* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman*.
BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., C.C.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISON-DAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, ESQ.; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L. M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPTAIN W. P. WALSHE.
Surgeon-Lieutenant-Colonel T. S. WEIR, Acting Commissioner; the DRAINAGE ENGINEER on special duty; and the SECRETARY.

The minutes of the Meeting held on the 26th ultimo were signed.

Resolved: "That, as applied for by the Acting Commissioner in his memorandum No. 15010, dated 2nd instant, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 7211.

Resolved; "That the following be *recorded*:—Letter No. 14626, dated 26th ultimo, from the Acting Commissioner to the Secretary, reporting, as per section 92 (*a*) of the Municipal Act, that he has allowed three clubs to play cricket and foot-ball, free of charge, on the reclaimed ground at

No. 7212.

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* *See* Appendix B.

Sankli Tank up to March 1895. Stating that if these clubs pitch tents, they will be charged a nominal rent of four annas per quarter, and that such permission will be withdrawn without notice."

No. 7213. *Resolved*: "That, as requested by the Acting Commissioner, item No. 3 on the agenda paper be *withdrawn*, as the writing off of the stock in question is provided for in the Rules sanctioned by the Corporation in their Resolution No. 2885, dated 14th June 1894."

Considered letter to the Secretary, No. 14675, dated 27th ultimo, from the Acting Commissioner, as under:—

SIR,—With reference to the Corporation Resolution No. 1858, dated 14th May last, sanctioning the purchase of ground shown in yellow and scored red, admeasuring 23·15 square yards, at Rs. 10 per square yard, at Moogbhat Road, as a site for dust-bin cart at a cost of Rs. 231-8-0, I have the honour to state that in the course of enquiry before the Collector of Bombay one of the five owners of the land expressed his willingness for himself and his co-partners to sell the land at Rs. 10 per square yard, provided the whole plot, measuring 31·73 square yards, was taken up.

The owner's argument was that if only 23·15 square yards were taken up the remaining portion coloured yellow and scored blue would be of no use to them, and the Collector also expressed his opinion that the proposal was a fair one. Under the circumstances I request sanction of the Standing Committee and the Corporation to the taking up of the whole plot, measuring 31·73 square yards, at Rs. 10 per square yard, plus 15 per cent. for compulsory acquisition. The total cost is Rs. 365, but as Rs. 231-8-0 have already been sanctioned, the further sum now required is Rs 133-8-0, which can be met out of the Surplus Cash Balance. The state of the Surplus Cash Balance is as under:—

Surplus ascertained after the closing of accounts for 1893-94	Rs.			1,50,786	0 0
Out of which expenditure, excluding for temporary advances to be adjusted hereafter, has been sanctioned to the extent of	Rs.	1,15,712	12 4		
Expenditure recommended for sanction	Rs.	20,517	6 5		
				1,36,230	2 9
Balance available	Rs.			44,555	13 3

I have, &c.,

T. S. WEIR, Acting Commissioner.

Resolved: "That letter to the Secretary, No. 14675, dated 27th ultimo, from the Acting Commissioner, be forwarded to the Corporation, with reference to their Resolution No. 1858, dated 14th May last (sanctioning the taking up of 23·15 square yards, or thereabout, at Rs. 10 per yard, at Moogbhat Road, as site for dust-bin cart); and with the recommendation that sanction be given to the purchase of the whole plot of ground thereat, admeasuring 31·73 square yards, at the same rate, as shown in yellow and scored red and blue on the tracing marked "A," dated this day, and filed in Supplement to minute books. The extra cost, Rs. 133-8-0, to be met from Surplus Cash Balance."

No. 7214.

Resolved: "That petition, dated 15th ultimo, from Sakaram Sudoo, lately employed as peon in the Market department (who has been dismissed by the Acting Commissioner as being totally unfit for further employment), requesting that he may be allowed to remain on the service, be forwarded to the Acting Commissioner for disposal."

"That applicant be informed accordingly."

No. 7215.

Proposed by S. Rebsch, Esq., seconded by the Hon'ble Mr. Fazulbhoy Visram—

"That, with reference to their petition, dated 13th August last, Messrs. Fakirji J. Adajania, Rustamji Dorabji Unwalla and others, be informed that Chundanwadi Street is a private street, and that the Municipality cannot incur any expenditure on it until it has been levelled, metalled or paved, sewered, and provided with lamp posts to the satisfaction of the Commissioner, and declared a public thoroughfare as per the terms of section 306 of the Municipal Act."

No. 7216.

Amendment proposed by A. G. Viegas, Esq.—

That, in the opinion of the Standing Committee, no invidious distinction should be made between Chundanwadi and other similar streets in respect of scavenging and cleansing.

"That the cleansing of this and all similar streets in the City is incumbent on the Municipality according to section 365 of the Municipal Act."

Not seconded.

The original motion was *carried* (with one dissentient).

No. 7217. *Resolved* : "That the consideration of the Report of the Sub-Committee, on the question of the improvement of First Marine Street, be postponed, and that, in the meantime, the papers be circulated."

No. 7218. *Resolved* : "That, with reference to his memorandum No. 14837, dated 28th ultimo, the Acting Commissioner be requested to inform the Standing Committee when the Ejector stations at Colaba will be ready for inspection by them."

No. 7219. *Resolved* : "That with reference to his letter to the Secretary, No. 14986, dated 1st instant, requesting the Committee to recommend the Corporation to sanction the grant of Rs. 769, from Surplus Cash Balance, to meet the cost of laying a pipe drain for the carriage of waste water from the temporary chawls for bigaries, Frere Road, to the sewer in that road, the Acting Commissioner be asked to report as to whether the work cannot be provided for out of savings on the sanctioned grant for building the chawls. That, in the meantime, the work be proceeded with."

No. 7220. *Resolved* : "That the following be *recorded* :—Letter No. 15000, dated 27th ultimo, to the Secretary, from the Acting Commissioner, reporting that he has ordered the purchase from Messrs. Richardson & Cruddas, at a cost of Rs. 981, of special stoneware bends and junctions, required for pipe sewer manholes for discharging sewage from one level to another without splashing."

No. 7221. *Resolved* : "That, with reference to his letter to the Secretary, No. 15025, dated 1st instant, the Acting Commissioner be requested to state, separately, the cost of the clothing supplied to the employés of the Water Works, and to the Fire Brigade."

Considered letter to the Secretary, No. 14409, dated 25th ultimo, from the Acting Commissioner, as under :—

SIR,—With reference to the Resolution of the Standing Committee, No. 5615, dated 22nd ultimo, I have the honour to report that the value of paper, ink, mill boards, gold leaf and binding cloth used for work done in June and July 1894, is, as furnished by the contractor, Rs. 1,879-4-0 and Rs. 664-9-0, total Rs. 2,543-13-0, and that the 5 per cent. import duty on this value (Rs. 2,543-13-0) amounts to Rs. 127-3-0. The total cost of the work done during these two months is Rs. 3,370-6-6, and Rs. 1,945-6-2, total Rs. 5,315-12-8, and the 3½ per cent. proposed in this office No. 11255, dated 15th ultimo, to be paid on the total cost of the work, is Rs. 186-0-10.

The amount of 5 per cent. import duty payable on the value of the materials used during the year will, according to the basis above referred to, be Rs. 763-2-0, and 3½ per cent. on the basis of the cost of actual work, Rs. 1,116-5-0. The contract or schedule rates aggregate Rs. 27,320-5-0 and 3½ per cent. on it is Rs. 9,71-13-4. The value of materials used in the months of September and October, November and December, in which months the Annual Report, the Budget Estimates, Preliminary Lists of Voters and Municipal Election Roll are printed will undoubtedly be more than that given for these two months, and consequently the amount of import duty will be greater. It will not, therefore, be safe to base our calculations on the figures for the months of June and July. The contractor states that the chemicals and other articles purchased locally and used in the execution of the work cost him more than they did when the contract was signed, as, owing to the imposition of import duty and the fall in exchange, local dealers are charging 15 per cent. more than formerly.—I have, &c.,

T. S. WEIR, Acting Commissioner.

Proposed by Bhalchandra K. Bhatawadekar, Esq., seconded by the Hon'ble Mr. Javerilal U. Yajnik—

That, with reference to his letters to the Secretary, Nos. 11255 and 14409, dated 15th August and 25th ultimo, the Acting Commissioner be requested to inform the Printing Contractor that the Standing Committee will be prepared, in accordance with the terms of the Indian Tariff Act, to sanction payment of such sums as the Commissioner may, from time to time, satisfy himself are legally due to the Contractor under that Act.

Amendment moved by S. Rebsch, Esq., seconded by the Hon'ble Mr. Fazulbhoy Visram—

"That the Printing Contractor be paid 3 per cent. compounded allowance on all his bills at scheduled rates in lieu of the 5 per cent. payable to him under the Indian Tariff Act.

No. 7222.

"That, under the terms of section 69 (*e*) of the Municipal Act, the contract with the Printer be varied accordingly."

On a point of order, the Chairman ruled that, provided the Acting Commissioner acquiesced in the arrangement proposed by Mr. Rebsch, the *amendment* was in order.

On a division, the *amendment* was *carried* as a substantive proposition by 6 votes, *against* 4.

The Secretary having brought to notice the inconvenience arising from delays in the payment of labourers and others on occasions when a member of the Committee fails to attend at the Municipal Office for cheque signing, it was agreed that the same members who attend for the audit of the weekly statement shall also attend for cheque signing, receiving notice, as formerly, from the Secretary.

The following statement * was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes for the week ending 30th September 1894.

Resolved: "That, as applied for by the Acting Commissioner, in his Memorandum No. 15221, dated this day, sanction be given to the transfer of Rs. 172, from savings in section I, Establishment Fire Brigade Budget, to section II, rent of fire stations, and quarters, to meet the increased rent claimed by Mr. Byramji Nowroji in respect of the Fort fire station, Hornby Road, from 1st October 1892 to 30th September 1893, as per clause 4 of the lease entered into with him on the 26th November 1892."

No. 7223.

* *See* Appendix B.

BOMBAY, *10th October* 1894.

AT the Meeting of the Standing Committee held this day, there were present:—

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKER YAJNIK; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPTAIN W. P. WALSHE.

Surgeon-Lieut-Col. T. S. WEIR, Acting Commissioner; and the SECRETARY.

The minutes of the Meeting held on the 3rd instant were signed.

The seal of the Municipal Corporation was affixed to the following debentures:—

6 Debentures of the 5th instalment of the Tansa Water Works loan (for a currency of 50 years to be exchanged for those originally issued for 40 years) Nos. 19715-16 to 19719-20, and 19725-26 to 19729-30, of Rs. 1,000 each; 8 do. do. Nos. 21107 to 21113 and 21144 of Rs. 500 each; 22 consolidated debentures of the Bombay Municipal Sanitary Works Loan of 1885, Nos. 4484 and 85 N. N. to 4526-27 N.N. of Rs. 1,000 each; 15 do. do. Nos. 3840-59 N. N. to 4120-39 N. N., of Rs. 10,000 each; 8 do. do. Nos. 3640-89 N. N. to 3790-3839 N. N. and 4540-89 N. N. to 4690-4739 N. N., of Rs. 25,000 each; 2 sub-divided debentures of the Tansa Water Works Loan Nos. 28997 and 28998 of Rs. 500 each; 13 attested duplicate debentures of the Tansa Water Works Loan Nos. 965-966 to 989-990, of Rs. 1,000 each; 51 do. do. Nos. 280 and 1951 to 2000 of Rs. 500 each. 62 attested duplicate debentures of Bombay Municipal Sanitary Works Loan of 1885. Nos. 1229 N. N., 1994 N. N., 2052 N. N., to 2054 N. N., 2058 N. N., to 2060 N. N., 2063 N. N., 2444 N. N., 2471 N. N., 2472 N. N., 2477 N. N., 2479 N. N., to 2481 N. N., 2483 N. N., 2488 N. N., 2807 N. N., 3343 to 3345 N. N., and 3600 N. N., to 3639 N. N., of Rs. 500 each. 85 attested duplicate debentures of the Bombay Municipal (Drainage) Loan of 1878, Nos. 1395 to 1436, 1456 to 1462, 3582 to 3617, of Rs. 500 each.

At the request of the Acting Commissioner priority was given to item No. 15 on the Agenda paper, regarding a decree of the High Court as under :—

Considered the following :—

4th October 1894.

To DR. T. S. WEIR, Acting Commissioner.

SIR,—With reference to the previous correspondence on the subject of the suit filed by Messrs. Cooverji Heerji & Co. against the Corporation in the High Court claiming to recover the two sums of Rs 14,949-12-5 and Rs. 3,462-7-9, being the respective amounts which they alleged were due to them on account of brokerage in connection with the purchases of land from Bai Motlibai Wadia and Mr. M. C. Cama, we have the honour to report that the case came on for judgment to-day and the Court made a decree in favour of the Plaintiffs for the full amount with costs of the suits and interest on judgment at 6 per cent., till day of payment.

Subject.
High Court Suit No. 402 of 1893. Cooverji Virji and others *versus* the Municipal Corporation.

The judgment is a very lengthy and elaborate one, and we will obtain a copy of it at the earliest possible moment for your information, and write you fully upon the case. and we propose to laying the same before Counsel for his opinion as to whether an appeal should not be filed.

In the meantime we have to request you to ask the Chief Accountant to send us a cheque for the whole amount, namely, Rs. 18,412-4-2 with interest thereon at 6 per cent. from this day until payment. The interest on the said amount should be calculated up to date of your sending us the cheque. A further amount for the costs and interest on the amount of costs will be required hereafter when the bill of costs is made out and taxed. In the event of an appeal being filed, it will be necessary to deposit the amount in Court.—We have, &c.,

CRAWFORD, BURDER, & Co.

MEMORANDUM NO. 15373 OF 1894-95.

4th October 1894.

Copy forwarded to the Standing Committee for information.

The amount has been directed to be paid, and will have to be met, pending adjustments hereafter, out of the Surplus Cash Balance.

T. S. WEIR, Acting Commissioner.

Resolved : "That the consideration of Memorandum to the Secretary, No. 15373, dated 4th instant, from the Acting Commissioner, be postponed until he is definitely advised by the Municipal Solici-

No. 7376.

tors, supported by the opinion of Counsel, as to whether the Corporation should appeal in this matter."*

No. 7377. *Resolved* : "That, as applied for by the Acting Commissioner, in his memorandum No. 15780, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 7378. *Resolved* : "That, as applied for by the Acting Commissioner, in his memoranda to the Secretary, Nos. 15362 and 15363, dated 4th instant, and 15599, 15600, 15601 and 15602, dated 6th idem, sanction be given, under section 352 (2) of the Municipal Act, to the removal of the following structures built without permission :—

Names of owners.	Where.
Mr. Kasum Mahomed Mitha ...	Privy at Fergusson Road.
„ Ala Rakhia Usman ...	Shed at Mahim Bazaar Road.
„ Shamji Akharia Tulsidas ...	Do. at Nepean Sea Road.
Messrs. Khatri Purshotum Nathu and Bhawan Kala ...	Do. at Khetwadi 2nd Lane.
Bai Gomtibai, widow of Goverdhandas Valabdhas	Do. No. 1, Walkeshwar Road.
Mrs. G. Pereira	Do. at Chunam Kiln Road."

Read letter No. 15665, dated 6th instant, from the Acting Commissioner to the Secretary, as under :—

SIR,—With reference to the Standing Committee's Resolution No. 3106 of 5th July 1893, sanctioning the filing of a suit against Mr. M. M. De Souza for the recovery of property taxes due in respect of Ward No. 6783 Police Hospital Lane and Ward Nos. 6792, 6793 (1) and 6793 (2), Dolkar Street, I have the honour to state that the Municipal Solicitors, who were instructed to conduct the case, having reported that as Mr. Watkins, who had acquired the rights of a number of members of the De Souza family, interested in the property, had undertaken to discharge the outstandings out of the sale proceeds of the properties when sold, the filing of the suit was deferred.

The Solicitors now advise that there is no likelihood of Mr. Watkins paying the amount, and that as there are many claimants to the property a suit should be filed in the High Court for a declaratory decree under Section 212 of the Municipal Act. I have,

* The Hon'ble Mr. Javerilal as to this matter read a series of questions which he wished answered by the Acting Municipal Commissioner; but at the request of the Chairman made no motion for the present.

therefore, to request the sanction of the Standing Committee to the filing of the suit as advised by the Municipal Solicitors. I enclose a list showing the amount of property taxes and notice and warrant fees outstanding against the properties.—I have, &c.,

T. S. WEIR, Acting Commissioner.

No. 7379. *Resolved*: "That, with reference to his letter to the Secretary, No. 15665, dated 6th instant, the Acting Commissioner be asked to inform Mr. L. A. Watkins that the matter has been laid before the Standing Committee, who have requested the Acting Commissioner to apply to Mr. Watkins, and to inform him that, in the event of his not paying the amount in question at once, a suit will be filed against him."

Read letter No. 15208, dated 3rd instant, from the Acting Commissioner to the Secretary, as under :—

SIR,—I have the honour to report for the information of the Standing Committee and the Corporation that Mr. Dadabhai Navroji Davar, owner of house No. 78-80, Barbar Lane, having executed certain works within the regular line of the street as will appear from the accompanying tracing, was served with the usual notice, under section 351 of the Municipal Act, requesting him to show cause why the building should not be set-back. In reply, Mr. Davar stated he was willing to give up the whole building, and not a portion of it, as after the acquisition of the portion of the property for set-back the remaining portion would pay him exceedingly low. The building is 85·75 feet in length, 27·5 feet in breadth and 43 feet in height, and admeasures 266·41 square yards.

The land required for set-back measures 169 square yards.

Under section 298 of the Act the Municipality can take up only that portion of the property which stands within the regular line of the street, but as nearly $\frac{2}{3}$rd of the property lies within the regular line of the street a very heavy compensation will have to be paid if only the required portion were taken up. The Executive Engineer, therefore, recommends that the whole of the property be purchased.

The area available for resale after the improvement is carried out is 97 square yards. The Executive Engineer estimates that Rs. 4,446 will be realized by the sale of the land and the materials of the house.

Mr. Dadabhai Navroji demanded Rs. 20,000 for the whole property, but the Executive Engineer reports that it is not worth more than Rs. 14,000, and this offer Mr. Dadabhai is willing to accept, therefore the amount which the Corporation will have actually to pay for the street improvement will be Rs. 9,554.

Barber Lane and the whole of the locality surrounding it is very thickly populated, and the Executive Engineer considers the improvement very necessary.

The width of the lane at present is 8' 6," and after the street improvement is carried out it will be 25 feet.

Under the circumstances, I place the case before the Standing Committee and Corporation for consideration.—I have, &c.,

T. S. WEIR, Acting Commissioner.

No. 7380. *Resolved*: "That letter No. 15208, dated 3rd instant, from the Acting Commissioner to the Secretary, be referred to a Sub-Committee, consisting of the following members for report :—The Chairman, Messrs. Cowasjee Hormusjee, K. M. Shroff, and S. Rebsch."

No. 7381. *Resolved* : "That the following be *recorded* :—Letter to the Secretary, No. 15025, dated 1st instant, from the Acting Commissioner, reporting that he has accepted the tender of Messrs. H. Kasam & Co., the lower of the two tenders received, for the supply of clothing to the Water Works and Fire Brigade employés, at a cost of Rs. 4,541-14-0. The cost to be debited to Water Works Contingencies and the grant for clothing, Fire Brigade."

"Letter to the Secretary, No. 15577, dated 5th instant, from the Acting Commissioner, reporting with reference to the Committee's Resolution No. 7221, dated 3rd idem, that Rs. 2,095-2-0 are on account of clothing for employés of the Water Works, and Rs. 2,446-12-0 for those of the Fire Brigade. In future Budgets the grant for clothing for Water Works Establishment will be shown under a separate heading, and not included in contingencies as it is now."

Read the following letter No. 15575, dated 5th instant, from the Acting Commissioner to the Secretary :—

SIR,—I have the honour to request the favour of the Standing Committee sanctioning the acceptance of the offer of Messrs. Jehangir Hormusji & Co. for the purchase of the materials of the existing Bhuleshwar Market for Rs. 5,000. The building was put up to auction for removal on the 18th ultimo, but the highest offer then received was Rs. 4,650. The offer now recommended is a private offer received by Messrs. Meherji Johnstone & Co.

The Executive Engineer in a letter addressed to me reports that according to a rough estimate prepared by him the materials are worth about Rs. 4,500 to Rs. 5,000, and that the offer of Rs 5,000 now recommended is reasonable and may be accepted. He further adds that if the materials were put up to auction again he does not think a higher offer would be received.—I have, &c.,

T. S. WEIR, Acting Commissioner.

No. 7382. *Resolved*: "That, with reference to letter to the Secretary, No. 15575, dated 5th instant, from the Acting Commissioner, asking sanction to the acceptance of the offer of Messrs. Jehangir Hormusji & Co., for the purchase of the materials of the old Bhuleshwar Market for Rs. 5,000, the Acting Commissioner be asked to have the said materials put up again for sale by auction."

No. 7383. *Resolved*: "That the consideration of the following be postponed until the completion of the adjustment of the account for the past year."

"Letter from the Acting Commissioner to the Secretary, No. 15666, dated 6th instant, requesting sanction to the grant of Rs. 8,500, from Surplus Cash Balance, for payment of cost of water supplied to the Carnac Bunder Night-soil Depôt."

No. 7384. *Resolved*: "That, as applied for by the Acting Commissioner in his memorandum to the Secretary, No. 15605, dated 6th instant, sanction be given to the transfer of Rs. 67-8-0 from savings in the grant for the Assessment and Collection Department II, Out-door Establishment, Ward Clerks to same head I, Headquarters Office, Accounts and Registration, to meet acting allowance payable during the absence of the Cashier, same department, on 3 months' privilege leave."

No. 7385. *Resolved*: "That, with reference to the application made by the Acting Commissioner in his letter to the Secretary, No. 15152, dated 2nd instant, the Standing Committee, under the terms of section 407 (*c*) of the Municipal Act, approve of Rs. 21, 21, and 16 per quarter, respectively, being charged as rent of stalls Nos. 124, 125 and 126, in the temporary market at Bhuleshwar."

Resolved : "That memorandum No. 15147, dated 2nd instant, from the Acting Commissioner, forwarding 14 statements of the estimated cost of Loan Works and expenditure thereon up to the 31st March 1894, be circulated to the Committee."

No. 7386.

Resolved : "That the following be forwarded to the Acting Commissioner for remarks :—Letter to the President, dated 4th instant, from Mr. Anandrao R. Talcherkar on the subject of the drainage of Khetwady."

No. 7387.

Read letter No. 15576, dated 5th instant, from the Acting Commissioner to the Secretary, as under :—

SIR,—With reference to the Standing Committee's Resolution No. 6594 of the 12th ultimo, I have the honor to state that the construction of the drain referred to was sanctioned by the Corporation under their Resolution No. 2377 of 14th June last, on the conditions that the lessee, Mr. Haji Usman Haji Latiff, of the Port Trust land, through which the drain was to run, should withdraw his reservation as to damages or that the line of the drain should be changed so as to avoid the leasehold . The Drainage Engineer reported that the latter course was not possible, for if the drain were carried round the leasehold land the length of it would have to be considerably increased, and the gradient would be greatly interfered with. Mr. Haji Usman Haji Latiff, the lessee of the land, was communicated with on the subject with a view to induce him to withdraw his reservation, but he in his reply addressed to the Drainage Engineer declined to relieve the Municipality of the responsibility. He was again interviewed by the Drainage Engineer, but with no better results.

Since the date of the above quoted resolution of the Standing Committee the Drainage Engineer again communicated with the lessee, and I enclose a copy of his reply, from which it will be seen that he repeats his previous objections and reservations. Under the circumstances I regret that the work as sanctioned by the Corporation cannot be carried out. On one side is the damage—not probable—to property, and on the other side the public health—the health of the people of Colaba—public health *versus* public money. As the resolution of the Corporation has been passed the nuisances in Colaba cannot even be abated.—I have, &c.,

T. S. WEIR, Acting Commissioner.

BOMBAY, 25*th September* 1894.

TO THE DRAINAGE ENGINEER.

SIR,

I beg to acknowledge receipt of your letter No. $\frac{D}{4726}$ of 1894-95, of the 25th September, and in reply beg to say that I give my sanction to the proposed construction of an open temporary drain (until the completion of sewage works, now in course of construc-

tion) behind my property, No. 539, at Colaba Causeway on the following conditions :—

1. That the Municipality to carry out this work (temporary open drain) at their own cost and expense; the Municipality being responsible for any damage to my buildings by reason of any negligence on the part of the Municipality or their servants.

2. That the entire length of the open drain from the cook-room to the sitting-room on the west side is covered over with stone slabs to prevent bad smell arising from the said drain to the annoyance of my tenants or to the detriment of their health. If you agree to the above terms you have my permission to proceed with the work at once.

I await your reply.—Yours truly,

HAJI USMAN HAJI LATIFF.

No. 7388. *Resolved*: "That, with reference to his letter to the Secretary, No. 15576, dated 5th instant, the Acting Commissioner be requested to ask the Drainage Engineer or report as to the nature of the possible damage which may occur to the property of Haji Usman Haji Latiff, by the passing of the drain through the same."

No. 7389. *Resolved*: "That the following be *recorded*:—Memorandum No. 15543, dated 5th instant, from the Acting Commissioner, forwarding analyses of water as under :—

Sample No. I.—Unfiltered water taken from the channel leading to Filters at Malabar Hill Reservoir, on 1st October 1894.

	Parts per million.
Free Ammonia	·015
Albuminoid Ammonia	·22

Sample No. II.—Water taken from the outlet of No. 3 Filter bed at Malabar Hill Reservoir, on the 1st October 1894.

	Parts per million.
Free Ammonia	·01
Albuminoid Ammonia	·32

Sample No. III.—Water taken from the outlet of No. 4 Filter bed on Malabar Hill Reservoir, on 1st October 1894.

	Parts per million.
Free Ammonia	·01
Albuminoid Ammonia	·15

Sample No. IV.—Water taken from the outlet of No. 1 Filter bed on Malabar Hill Reservoir, on the 1st October 1894.

	Parts per million.
Free Ammonia	·01
Albuminoid Ammonia	·047

Sample No. V.—Water taken from outlet of No. 2 Filter bed on Malabar Hill Reservoir, on the 1st October 1894.

	Parts per million.
Free Ammonia	·01
Albuminoid Ammonia	·1

The following return was read and *Recorded* :—

Return of fires at 4th Koli Lane, Lower Colaba, and Kazi Street, forwarded with the Commissioner's memorandum No. 15173, dated 2nd October 1894.*

The following statement † was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes for the week ending 7th October 1894.

BOMBAY, 17*th October* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M. ; COWASJEE HORMUSJEE, ESQ., G.G.M.C. ; THE HON'BLE MR. FAZULBHOY VISRAM ; HURKISONDAS NURROTUMDAS, ESQ. ; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK ; K. M. SHROFF, ESQ. ; S. REBSCH, ESQ., ASSO. M.I.C.E. ; ACCACIO G. VIEGAS, ESQ., L.M. & S. ; R. H. VINCENT, ESQ., C.I.E. ; CAPTAIN W. P. WALSHE.

Surgeon-Lieut.-Col. T. S. WEIR, Acting Commissioner ; and the SECRETARY.

A note, dated Matheran, 16th instant, to the Secretary, from G. W. Roughton, Esq., the Chairman, apologizing for non-attendance, was read.

On the motion of R. H. Vincent, Esq., seconded by Hurkisondas Nurrotumdas, Esq., Cowasjee Hormusjee, Esq., was voted to the Chair.

The minutes of the meeting held on the 10th instant, were signed.

The seal of the Corporation was affixed to deeds of contract : (1) with Messrs. Richardson & Cruddas, for casting gun-metal sheeting round 8 rods of the pumps at Love Grove Pumping Station ; and (2) with Mr. Muncherjee Cowasjee Guzdar, for providing certain articles of furniture for the Municipal Offices.

Resolved : "That, as applied for by the Acting Commissioner, in his memorandum No. 16275, dated 15th instant, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 7666.

Considered the following :—

Letter, dated 12th instant, to the Acting Commissioner, as under. :—

SIR,—Referring to the previous correspondence ending with our letter of the 6th instant, on the subject of the suit marginally noted, we have now the honour to forward you herewith copy of the joint opinion of Counsel, Mr. Inverarity

Subject.
High Court Suit.
Cooverji Hirji & others
versus
Municipal Corporation.

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* *See* Appendix C. † *See* Appendix B.

and Mr. Scott, obtained herein, for your information and perusal, and shall feel obliged by your sending us instructions without delay as to whether, or not we should file an appeal.

We should also be furnished, at the same time, with a cheque for the amount of the decree and interest as asked for in our letter of the 4th instant, together with a further cheque for Rs. 500, being the amount to be deposited in Court as security for the plaintiffs' costs in respect of the appeal.

We have not forwarded a copy of the judgment, as we find that the full text thereof has been published in the issue of the *Times of India* of the 9th October instant, a cutting whereof can be placed in your records for future reference.—We have, &c.,

CRAWFORD, BURDER & Co.

No. 16040 of 12th October 1894.

Copy forwarded to the Municipal Secretary, for the information of the Standing Committee. Under the circumstances the Acting Commissioner has already directed the payment of the amount to our Solicitors, and instructed the Solicitors to lodge an appeal.

T. S. WEIR, Acting Commissioner.

Letter No. 2928, dated 16th instant, to the Acting Commissioner, as under :—

SIR,—As directed in your No. 16039, dated the 13th instant, I have the honour to inform you that a cheque No. 772, dated yesterday, on the Bank of Bombay for Rs. 18,451-9-9, has been forwarded to the Municipal Solicitors this day, by debiting its amount to the 15 lakhs loan for roads in Agripada and elsewhere. This cheque includes interest up to this day (inclusive) ; the payment will have to be reported to the Standing Committee, under Section 117 of the Municipal Act. The other cheque for Rs. 500, required to be deposited in Court as security for plaintiffs' costs in the appeal, has been prepared and will be forwarded to the Municipal Solicitors as soon as it is signed by the Municipal Secretary and a member of the Standing Committee.

2. I may also state here that the approval of the Standing Committee will be necessary to the filing of an appeal under Section 517 (*j*).—I have, &c.,

W. PEARSON, Acting Chief Accountant.

No. 16381 of 1894-95.

16*th October* 1894.

Forwarded to the Municipal Secretary.

T. S. WEIR, Acting Commissioner.

Proposed by the Hon'ble Mr. Fazulbhoy Visram, seconded by Hurkisondas Nurrotumdas, Esq.—

"That, with reference to memoranda Nos. 16040 and 16381, dated 12th and 16th instant, from the Acting Commissioner to the Secretary, the

Standing Committee approve, under the terms of Section 517 (*j*) of the Municipal Act, of an appeal being lodged in the High Court, against the decree of the Hon'ble Mr. Justice Starling, in the case of Cooverji Hirji & Co. *versus* the Corporation.

"That the Secretary be authorised to countersign cheque for Rs. 500, in favour of Messrs. Crawford, Burder & Co., the Municipal Solicitors, the amount of the deposit to be lodged with the appeal as security for the plaintiffs' costs.

"That the Corporation be recommended to sanction the payment of Rs. 18,951-9-9, the amounts at present payable under the decree, and of lodging the appeal, to the debit of the unexpended balance of the grants, for the construction of roads in Agripada and elsewhere."

Carried.

No. 7668. *Resolved*: "That the following be *recorded*:—Memorandum No. 16013, dated 12th instant, from the Acting Commissioner to the Secretary, reporting that a lot of 4 per cent. (recently reduced to 3½ per cent.) Government paper for Rs. 1,50,000, belonging to the 23¼ Lakhs Loan for Drainage and other Works Deposit Account, was sold on the 6th idem, at $103\frac{7}{16}$ against the cost price of $103\frac{3}{4}$."

No. 7669. *Resolved*: "That, as applied for by the Acting Commissioner, in his letter No. 16162, dated 13th instant, sanction be given, under section 69 (*e*) of the Municipal Act, to the variation of the contract, with Messrs. Dadabhoy Hormasjee & Co., whereby in lieu of their allowing the Municipality 2 per cent. on account of coal supplied being wet, they supply five tons of Powell's Duffryn Cardiff coal and five tons of Davison's West Hartley coal."

"That the cost of ten tons over and above the contract quantity, Rs. 188-12-0, be met from the grant for coal, section II., B. Love Grove Pumping Station."

No. 7670. *Resolved*: "That, as applied for by the Acting Commissioner, in his letter to the Secretary, No. 16222, dated 15th instant, and under the terms of section 517 (*h*) of the Municipal Act, the Committee approve of his compromising the suit, brought against the Municipality, by Mr. Behramji Nowroji, in

respect of the rent of the premises, leased by him, to the Corporation, for use as the Fort Fire Brigade Station.

"That half the costs incurred by his Solicitors, in filing suit, in the Court of Small Causes, against the Corporation, Rs. 12-12-0, be debited to the grant for law charges, for the current year."

Resolved : "That, as applied for by the Acting Commissioner in his letter to the Secretary, No. 16226, dated 15th instant, sanction be given to the acceptance by him, of the tender of Mr. Mancherji Cowasji Gazdar, the lowest of the four tenders received, for making certain additions and alterations to the Fire Brigade Station at Chinchpokli, at a cost of Rs. 6,149-3-5, *plus* Rs. 655-6-5, for contingencies and establishment. The total amount, Rs. 6,804-9-10, to be debited to the sanctioned amount of Rs. 7,209-4-4."

No. 7671.

Resolved : "That, as applied for by the Acting Commissioner in his memorandum to the Secretary, No. 16008, dated 12th instant, and subject to the approval of the Corporation, under section 133 (2) of the Municipal Act, sanction be given to the transfer of Rs. 4,000, from savings in the grant for the Drainage Department, as per margin, to meet the cost of 1,050 pounds, dermetine valve faces, for the Love Grove Pumping Station."

No. 7672.

Section I. A. Establishment, Miscellaneous Drainage; Section II. A. Miscellaneous Drain cleaning Establishment. Miscellaneous Main Sewer. Establishment; Section I. C. Maintenance of Sluices, Section IV. B. Contingencies and Stores, Love Grove Pumping Station.

Resolved : "That, as applied for by the Acting Commissioner, in his letter to the Secretary, No. 16107, dated 13th instant, sanction be given to the employment of a Ramosee for day duty at the Cholera Hospital, Kamathipura, from 1st August last, at Rs. 10 per month. The charge to be met from the grant for Infectious Diseases."

No. 7673.

Resolved : "That, as applied for by the Acting Commissioner, in his letter to the Secretary, No. 16050, dated 13th instant, sanction be given to the continuance of the charging of the following compounded water-rates to Government for water supplied to plots, when temporarily occupied, in Wellington Lines, viz. :—

No. 7674.

For each large plot, Rs. 2 per month.
For each small plot Re. 1 per month.

"That these charges be subject to modification, should they, from meter readings, prove to be insufficient."

Resolved: "That the following be *recorded*:—Memo-
No. 7675. randum No. 16109, dated 13th instant, from the Acting Commissioner to the Secretary, forwarding copy of letter addressed to the Corporation, on the subject of recasting one of the gates of the Elphinstone Circle Garden. Stating that he has accepted the offer of Messrs. Gahagan & Co., for casting the same, at the rate of Rs. 12-8-0 per cwt., the total cost, Rs. 513, to be met from the grant, sanctioned for the work.

Resolved: "That the following be *recorded*:—Memo-
No. 7676. randum No. 15813, dated 10th instant, from the Acting Commissioner to the Secretary, forwarding statement of two set-backs of properties in Abdul Rahiman Street and at the junction of Sonapore and Mahadeo Shankar Sett Lanes, sanctioned under section 298 of the Municipal Act, during the month of September last."

Resolved: "That memorandum, No. 16221, dated 15th
No. 7677. instant, from the Acting Commissioner to the Secretary, on the subject of the laying of water main in Connaught Road, be circulated to the Committee and brought on for consideration at a future meeting."

Considered letter No. 2853, dated 10th instant, to the Acting Commissioner, as under :—

SIR,—I have the honour to forward, for transmission to the Standing Committee, a return of receipts and disbursements of the Bombay Municipality for the quarter ending 29th September 1894, as compared with the corresponding quarter for the previous year, as required by the then Town Council's Resolution No. 465 of 1st June 1887, with a list of additional grants, amounting to Rs. 52,350-10-4, sanctioned by the Corporation during the quarter.

2. The unappropriated Surplus Cash Balance, as pointed out in the Annual Report of this office for the past year, page (82), amounts to Rs. 1,80,786, out of which Rs. 1,15,404-12-4 have already been sanctioned by the Corporation up to the end of the quarter as additional grants for the current year.—I have, &c.,

W. PEARSON, Acting Chief Accountant.

ACCOUNT OF THE BOMBAY MUNICIPALITY FOR
contrasted with that for the

	Budget Estimate.	Quarter ending 30th Sept. 1893.	Quarter ending 29th Sept. 1894.
Receipts.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Balance on 1st April 1894	19,50,000 0 0	6,05,183 1 6	4,92,254 9 0
General Tax	13,26,000 0 0	4,70,666 6 11	2,32,963 8 7
Water Tax (including other Miscellaneous W. W. Revenue)	13,00,000 0 0	3,71,257 0 9	3,42,386 2 10
Wheel Tax and Tolls	3,45,850 0 0	51,404 6 0	48,933 12 9
Halalcore Tax	6,00,000 0 0	1,17,307 8 6	1,22,204 0 11
Town Duties	7,74,000 0 0	14,015 0 1	21,274 14 11
Licenses	80,900 0 0	13,032 13 0	19,109 8 0
Liquor Licenses, Instalment paid by Government in lieu of, under B. Act V. of 1878	1,43,750 0 0	.....	.....
Tobacco Duty (under Act IV. of 1857)	1,87,000 0 0	31,545 14 0	34,590 0 0
Market Receipts	3,65,600 0 0	1,02,690 11 7	94,051 10 11
Miscellaneous Fees	50,000 0 0	9,748 11 2	12,478 12 7
„ Fines and Penalties	8,000 0 0	3,076 10 9	2,775 14 10
„ Receipts	1,25,000 0 0	27,540 5 2	34,289 13 3
„ Savings	3,000 0 0	.....	.....
Sale proceeds of unserviceable stores sold by public auction	.....	.....	437 3 10
Public Gardens	7,000 0 0	1,234 15 6	1,679 6 4
Contribution from Municipal Servants towards Pension, &c., Fund	15,800 0 0	3,973 5 7	4,005 1 2
Tramway Rent	38,000 0 0	.....	.....
Interest and Profit on Investments of Surplus Loan and other Balances	2,04,600 0 0	56,112 15 1	36,870 15 0
Premia on the 4 per cent. Loan for repayment of the Government Consolidated Loan	.....	25,243 5 6	.....
	60,74,500 0 0	12,98,850 1 7	10,08,050 13 11
Debt	.....	41,83,500 0 0	.....
Workshop Recoveries	.....	15,115 1 0	11,788 10 5
Advances	.....	52,221 2 10	99,774 4 6
Bank of Bombay Loan and other Deposit Accounts	.....	8,22,794 1 8	11,63,339 13 6
Deposits	.....	1,51,580 6 8	45,689 7 2
Rupees	60,74,500 0 0	65,24,066 13 9	23,28,643 1 6
Total Rupees	80,24,500 0 0	71,29,243 15 3	28,20,897 10 6

THE QUARTER ENDING 29TH SEPTEMBER 1894, as Quarter ending 30th September 1893.

	Budget Estimate.	Quarter ending 30th September 1893.	Quarter ending 29th September 1894.
Disbursements.	Rs. a. p.	Rs. a. p.	Rs. a. p.
General Superintendence	2,04,192 0 0	52,188 15 3	49,660 2 3
Assessment and Collection Department	2,55,322 0 0	61,517 12 3	61,610 8 8
Fire Brigade	1,15,435 0 0	16,889 13 8	18,083 10 5
Public Gardens	57,994 0 0	24,552 15 11	12,381 7 2
Net cost of the land acquired for the improvement and extension of the Victoria Gardens	.....	.....	28,102 8 6
Public Works (Engineer's Dept.) — General Supervision Establishment	40,326 0 0	9,158 6 2	9,319 14 0
Drainage	2,03,147 0 0	59,920 14 1	45,647 8 6
Water Works	2,28,968 0 0	49,212 5 2	49,422 15 4
Streets and Buildings Inspection and Supervision Establishment	86,677 0 0	20,841 2 5	21,145 12 11
Public Lighting	3,22,734 0 0	77,526 12 7	89,273 15 11
Road Watering	82,400 0 0	15,990 0 3	11,804 2 7
Road Repairs and Maintenance	3,50,910 0 0	98,712 7 9	78,238 0 8
Street Improvements	1,02,500 0 0	10,697 7 1	19,156 1 6
Cleaning, Lighting and Repairing Port Trust Wharves	38,842 0 0	37,642 0 0	.....
Health Department	13,31,159 0 0	3,67,463 2 8	3,18,037 4 11
Police Charges	4,00,000 0 0	90,836 4 0	93,283 0 0
Education	89,435 0 0	17,916 10 0	18,096 2 6
Hospitals	57,000 0 0	11,969 9 5	16,955 13 9
Miscellaneous	67,326 0 0	17,731 2 3	16,723 1 4
New Works	96,293 0 0	20,719 11 2	42,371 9 9
Debt (including Sinking Fund deposited with the Bank of Bombay)	21,26,551 0 0	48,85,217 10 6	5,51,208 14 5
	62,57,211 0 0	59,46,765 2 7	15,53,523 5 1
Loan Works Accounts	.....	1,24,200 7 4	3,84,511 9 2
Workshops	.....	30,619 9 0	21,160 1 5
Advances	.....	76,862 11 9	1,06,176 4 2
Bank of Bombay Loan and other Deposit Accounts	.....	4,09,998 11 10	5,24,522 11 1
Deposits	.....	2,36,021 11 4	59,094 10 5
Rupees	62,57,211 0 0	68,74,406 5 10	26,48,988 9 4
Closing Balance	.....	2,54,835 9 5	1,71,909 1 2
Estimated Balance on 31st March 1895	17,67,289 0 0	.....	.....
Total Rupees	80,24,500 0 0	71,29,243 15 3	28,20,897 10 6

List of Additional Grants sanctioned by the Corporation for the Quarter ending 30th September 1894.

Resolution No.	Month and Date.		Amount.
	1894.		Rs. a. p.
3710	July 5 ...	Grant of Rs. 4,051-11-5 from Surplus Cash Balance as Refund of the unexpended Balances of 1890-91, 1891-92 and 1892-93 of the Fund for the Homeless Leper Asylum, Matunga, which have been improperly credited to the Municipal Fund	4,051 11 5
3712	" 5 ...	Grant of Rs. 500 from Surplus Cash Balance to provide for the cost of printing work required by the Committee of the Corporation appointed to investigate and report on the question of the inadequate and intermittent supply of water	500 0 0
3715	" 5 ...	Grant of Rs. 389-4-3 for writing off the amount which was stolen from the Victoria Garden's Office on the 25th March 1894, *i. e.* (1) Rs. 168-2-0 on account of sale of flowers and plants; (2) Rs. 152-6-3, balance of Rs. 300 advanced to the Superintendent of Gardens; and (3) Rs. 68-12-0, amount received for sending plants and seeds to England	389 4 3
4869	August 2 ...	Grant of Rs. 997 from Surplus Cash Balance for meeting part of the cost of establishment, coal, &c., for lighting with electricity the Crawford Markets and the Municipal Offices	997 0 0
4872	" 2 ...	Grant of Rs. 2,000 from Surplus Cash Balance to meet the cost of repairing the Pump-rods of the Engines at Love Grove Pumping Station.....	2,000 0 0
4874	" 2 ...	Grant of Rs. 1,102 from Surplus Cash Balance for making the additions of one cook-room, one servants' room and one privy to the bungalow, the property of the Municipality at Mahim occupied by the Police Inspector, &c...	1,102 0 0
4876	" 2 ...	Grant of Rs. 1,943 from Surplus Cash Balance for ovoiding drain near Framji Cavasji Fire Temple at Karelwadi, covering it with dhapas and gratings and making the necessary arrangements for preventing the escape of gas therefrom into the street during dry weather and the admission of storm-water into the drain during the rains	1,943 0 0
6306	September 6 ...	Grant of Rs. 3,947-10-8 from Surplus Cash Balance to meet the cost of establishment, coal, &c., (1) for working of Garlick's Incinerator erected in the compound of the Municipal Workshops, and (2) Do. of the Silchar Incinerator on ground at Sewri leased from Government	3,947 10 8
		Carried over Rupees...	14,930 10 4

Resolution No.	Month and Date.		Amount.
			Rs. a. p.
	1894.	Brought forward Rupees...	14,930 10 4
6518	September 6 ...	Grant of Rs. 30,000 from Surplus Cash Balance for the cost of repairing the embankment of the Tansa Water Main on Siphon Line No. 6, injured by the late rains.....	30,000 0 0
6526	,, 10 ...	Grant of Rs. 380 from Surplus Cash Balance to meet the cost of the temporary establishment consequent on the recent outbreak of cholera at the J. J. Hospital and the risk of the outbreak affecting other parts of the City.	380 0 0
6527	,, 10 ...	Grant of Rs. 3,750 from Surplus Cash Balance to meet the additional expenditure up to the end of the year on account of contingencies, Water Works Department.....	3,750 0 0
6528	,, 10 ...	Grant of Rs. 120 from Surplus Cash Balance to meet the cost of compassionate allowance to Anandibai, widow of Govind Rutna, late peon in the Assessment Department.....	120 0 0
6529	,, 10 ...	Grant of Rs. 120 from Surplus Cash Balance to meet the compassionate allowance payable to Zooloo, daughter of Rahimbux Moula, late peon in the Assessment Department, (2) and of Rs. 50 from do. for the payment of pension up to the end of the current financial year to Abdool Kadar Alli, peon in the Assessment Department.....	170 0 0
6532	,, 10 ...	Grant of Rs. 3,000 from Surplus Cash Balance to meet the cost of procuring air-analyses by an expert and for printing and other charges which may have to be incurred in carrying out the inquiry into the question of the disposal of Town sweepings	3,000 0 0
		Total Rupees...	*52,350 10 4

* This is exclusive of the Grant of Rs. 1,463, from the Balance of the Garden Fund, to meet the cost of constructing an enclosure and a shed in the Victoria Gardens for a wild ass from the Runn of Cutch.

No. 16134 of 1894-95.

13*th October* 1894.

Forwarded to the Municipal Secretary, for the information of the Stauding Committee.

T. S. WEIR, Acting Commissioner.

Resolved : "That the following be *recorded*, on the minutes of this day's meeting :—Memorandum No. 16134, dated 13th instant, from

No. 7678.

the Acting Commissioner to the Secretary, forwarding return of receipts and disbursements for the quarter ending 29th September 1894, as compared with the corresponding quarter of the previous year, together with a list of additional grants, sanctioned by the Corporation, during the same quarter.

No. 7679. *Resolved* : "That the following be *recorded* :—Memorandum No. 16130, dated 13th instant, from the Acting Commissioner to the Secretary, forwarding statement of houses or portions of houses which fell during the month of September 1894.*"

No. 7680. *Resolved* : "That the following be *recorded* :—Letter No. 16115, dated 13th instant, from the Acting Commissioner to the Secretary, reporting that a trial of the steam engine obtained by the Health Department for gully-flushing will be made on Wednesday, the 17th idem, in the Fort, near the Municipal Offices. Requesting members to honour the occasion by their presence. Stating that the engine has so far worked admirably."

No. 7681. *Resolved* : "That letter No. 16163, dated 13th instant, from the Acting Commissioner, and accompaniments thereto, to the Secretary, on the subject of the charge for water supplied to the Madhowji Dharamsi Manufacturing Company, be circulated to the Committee, and brought on for consideration at a future meeting."

No. 7682. *Resolved* : "That the following be forwarded to the Acting Commissioner for disposal :—Letter, dated 8th instant, from Mr. Kursondas Morarjee to the Chairman, requesting that the wooden steps and boards, removed by the Municipal Inspector, from applicant's premises, Nos. 340-70, Parel Road, may be returned to him."

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* (1) Dwelling house in Kazi Syed Street, owned by Kison Natha, one joist of which fell on the 18th September last; one person was injured and the estimated loss was about Rs. 10. (2) Dwelling house in Suklajee Street, owned by Mangaldas Parbhoodas, the north-west corner and roof and ceiling of which fell on 19th idem on account of the rafters being decayed. The damage is estimated at Rs. 100; no persons were either injured or killed. A notice was served on the owner on the 24th of the same month to remove the ruinous portions.

Resolved :- "That the following be *recorded* :—Memo-
No. 7683. randum No. 16119, dated 13th instant, from the Acting Commissioner, forwarding analyses of Tulsi, Vehar and Tansa waters as under" :—

Sample No. I.—Filtered Vehar water taken from the filter channel of the Bhandarwada Reservoir, at 9 a.m., on 6th October 1894.

	Parts per million.
Free Ammonia	·006
Albuminoid Ammonia	·08

Sample No. II.—Unfiltered Vehar water taken from the inlet channel of the Bhandarwada Reservoir, at 9 a.m., on the 6th October 1894.

	Parts per million.
Free Ammonia	·01
Albuminoid Ammonia	·17

Sample No. III.—Tulsi filtered water taken from the vault of No. 3 filter of the Malabar Hill Reservoir, on 6th October 1894.

	Parts per million.
Free Ammonia	·006
Albuminoid Ammonia	·26

Sample No. IV.—Tansa water taken from a hydrant on 27" main, Arthur Road, on 6th October 1894.

	Parts per million.
Free Ammonia	·02
Albuminoid Ammonia	·24

The following statement † was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 14th October 1894.

At the conclusion of the meeting, the members of the Committee and the Secretary accompanied the Acting Commissioner, the Acting Health Officer, the Acting Assistant Health Officer, and Inspector Hallums, to Bazar Gate Street. There, the Committee witnessed the flushing out of some gullies by the steam engine, referred to in the Acting Commissioner's letter No. 16115, as above. The engine is very small and portable, easily moved about by three or four men, and capable of throwing a powerful column of water up a long gully and of washing down the walls of houses abutting on gullies. The exhibition was considered highly satisfactory, and the Committee were enabled to contrast the great difference between the effects of the heavy volume of water thrown by the steam engine and the weak jet of water thrown by a hand-pipe worked by ten men.

† *See* Appendix B.

BOMBAY, 24*th October* 1894.

AT the meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, Esq., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSOC. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPTAIN W. P. WALSHE.

Surgeon-Lieutenant-Colonel T. S. WEIR, Acting Commissioner; the EXECUTIVE ENGINEER; and the SECRETARY.

The minutes of the meeting held on the 17th instant were signed.

Received letter from Mr. Kaikhosro N. Kabraji, apologizing, on account of illness, for not being able to attend this meeting and the previous meeting.

The seal of the Corporation was affixed to the following Debentures :—48 attested duplicate debentures of the Bombay Municipal Sanitary Works Loan of 1885, Nos. 3408 N.N. to 3415 N.N. and 4900 N.N. to 4939 N.N., of Rs. 500 each. 33 attested duplicate debentures of the Municipal (Drainage) Loan of 1878, Nos. 1341, 1343, 3247 to 3249, 4030 to 4035, 4038 to 4040, 4042, 4044 to 4047, 4050 to 4056, 4076, 4078, 4079, 4081, 4082, 4213 and 4881, of Rs. 500 each. 4 attested duplicate debentures of the Bombay Municipal Sanitary Works Loan of 1888, Nos. 341-42, 343-44, 375-76 and 445-46, of Rs. 1,000 each. 2 attested duplicate debentures of the 35 lakhs Various Sanitary Works Loan, Nos. 119 and 2032, of Rs. 500 each. 1 attested duplicate debenture of the Tansa Water Works Loan, No. 679, of Rs. 500. 1 consolidated debenture of the Tansa Water Works Loan, Nos. 3223-26, of Rs. 2,000.

No. 7994. *Resolved* : "That, as applied for by the Acting Commissioner, in his memorandum No. 17151, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 7995. *Resolved* : "That, as applied for by the Acting Commissioner, in his memoranda Nos. 16338 and 16340, dated 16th instant, sanction be

given, under section 351 (2) of the Municipal Act, to the removal of the following structures built without permission."

Names of owners.	Where.
Mr. Lakhmidas Kimji	Building at No. 5, Dongarsi Road.
„ Adamji Moosabhoy	Shed at Haines Road.

Considered the following :—

No. 16551 OF 1894-95.

BOMBAY, 18*th October* 1894.

TO THE MUNICIPAL SECRETARY.

SIR,—I have the honour to bring to the notice of the Standing Committee, what most of the members are aware of, a serious nuisance caused by night-soil and scavenging carts standing in the streets in Kamathipura, especially on the ground outside Municipal stables opposite a temple. There is also a cutcha stable built by the Health Department and covered with jowlies on the side of the public street, the removal of which has been for some time under consideration. As this stable has no plinth and is over-crowded with animals, and as there is not room enough for carts inside, and as it is next to a night-soil depôt and an incinerator, the working of which is interfered with, its removal is necessary as soon as possible. The removal of this nuisance from carts in the streets and the better stabling of the bullocks of the Night Branch can only be effected by obtaining more stable room, and this has been under contemplation for some time. It is also necessary to provide house room for 257 cart-drivers of Night Branch, who have not been able since the riots to obtain satisfactory accommodation, and who have complained again and again and begged that rooms should be obtained for them by the Municipality. We have not been able as yet to find a convenient place for them, as it must be close to the stable. The nuisance from the carts in the streets can be removed and the want of accommodation for cart-drivers and also a number of bigaries can, I think, now be met by renting a large piece of ground at Bellasis Road and Cursetji Suklaji Street, on which are many buildings used as stables, lately occupied as a livery stable by Mr. Oomer Jamal. The property belongs to H. H. Aga Khan, and consists of about 13,975 square yards. We are at present so pressed for room in the Kamathipura stable that it has been necessary to hire an additional stable for Rs. 50 a month ; but this gives only a little relief and cannot be recommended. The agent of H. H. Aga Khan was requested to state the terms on which the ground could be leased to the Municipality, to which he has replied that he would let the place at a monthly rental of Rs. 525, exclusive of water-tax and expenses for repairs. I would recommend, if the agent consents,

to take Rs. 500 a month, that the ground be leased on the above-mentioned conditions for a term of two years. At present accommodation is urgently required by the Health Department for 230 pairs of bullocks, 130 carts and 1,048 halalkhors, bigaries and cart-drivers, and I consider that the ground referred to is very suitable to accommodate them all.

If the ground is leased by the Municipality the saving of rent would be Rs. 439 per month, or Rs. 5,268 per annum, as follows :—

Rent for chauls at Kamathipura	Rs.	389
Do. do. stable	„	50
Chaul now proposed to be hired for night-soil cart-drivers and bigaries	„	350
Stable for bullocks, which will have to be removed in case the incinerator at Kamathipura is improved	„	150
Total...	Rs.	939
Deduct the rent to be paid to H. H. Aga Khan.	„	500
Net saving ...	Rs.	439

If the opportunity of leasing this ground is lost, we will not be able to get the property again, as there is now a proposal to erect a foundry on it. I have, therefore, to request the sanction of the Standing Committee to my entering into lease for this ground.—I have, &c.,

T. S. WEIR, Acting Commissioner.

Resolved : "That a Sub-Committee consisting of Messrs. S. Rebsch, K. M. Shroff, R. H. Vincent, and Bhalchandra K. Bhatawadekar be appointed to inspect, in conjunction with the Acting Municipal Commissioner, the premises referred to in his letter to the Secretary, No. 16551, dated 18th instant, and report on the matters contained therein."

No. 7996.

Considered the following :—

No. 16597 OF 1894-95.

BOMBAY, 18*th October* 1894.

TO THE MUNICIPAL SECRETARY.

SIR,—With reference to your Nos. 6323 and 7046, dated respectively the 8th and 22nd ultimo, I have the honour to submit, for the consideration of the Standing Committee, the following schemes for the drainage of Suparibag Road. Before describing the schemes, I would state that the sewer in Parel Road was

completed in 1893, and as yet connections between buildings and this sewer have not been sanctioned. There are most serious nuisances described in my last Annual Report, which are because connections to the sewer, so long unused, have not been made from all buildings. The systems of house-connections proposed are :—A.—A complete system of house-connections on the existing system as shown in drawing "A." If all the houses in Parel village were connected on this system, the total cost of the work would be Rs. 32,757. B.—A partial method of house-connections similar to the system adopted in the Fort as shown in drawing "B." In this system the sullage is discharged on the surface of a gully and thence carried to the street sewers, gully-traps, siphons and 6" pipe drains being provided for the purpose at the end of the gully-pavement. If all the houses in the Parel village were connected on this system, the cost of the work would be Rs. 28,751.

I recommend scheme B, costing Rs. 28,751. It seems to me that a system of house-connections by open drains, as far as practicable, should be adopted in Parel. If this is kept in view, we shall have, at one end of the Island, a closed system such as the Shone, and at the other end an open system such as I recommend now. If scheme B is sanctioned, the amount, Rs. 28,751, can be met from the savings in the grant for the Parel Government Gate Road Drainage Works. I am strongly of opinion that the work should be done by the Municipality. Whether the amount should be recovered afterwards from the owners of properties is another question.—I have, &c.,

T. S. WEIR, Acting Commissioner.

Proposed by the Hon'ble Mr. Javerilal U. Yajnik, seconded by Bhalchandra K. Bhatawadekar, Esq.—

No. 7997. "That the following be referred to the House Connections Committee, and that they be requested to favour the Standing Committee with their opinion as to which if either of the two proposals should be adopted :—

"Letter No. 16597, dated 18th instant, from the Acting Commissioner to the Secretary, on the subject of house connections of houses at Parel."

Carried.

No. 7998. *Resolved* : "That the consideration of the following be postponed until next week, and that in the meantime the Acting Commissioner be

asked to give the data on which it is proposed to grant an allowance :—

"Letter No. 16663, dated 18th instant, from the Acting Commissioner to the Secretary, requesting sanction to the grant of a personal allowance of Rs. 20 per mensem to Mr. Jamsetji Dossabhai Karani, Surveyor, Drainage Department, for supervising the work of filling in and draining the compound of the Small-pox Hospital, for a period of five months, in addition to his own duties, from 28th September last. The amount to be debited to the contingent provision for the work."

Considered the following report of the Sub-Committee appointed on the 27th June, 1894, to enquire into and report on the question of the proposed improvement of First Marine Lane :—

The Sub-Committee visited the locality in question on the 4th July last, accompanied by the Executive Engineer. The result at which the Sub-Committee unanimously arrived was that having regard to the greater necessities of other portions of the city in regard to street improvement, the scheme as set out on the plans, prepared by the Executive Engineer for constructing a part of a broad thoroughfare connecting the Queen's Road with the Port Trust property, east of the Arthur Crawford Market, was far too ambitious and expensive, involving as it does an initial outlay of Rs. 3,24,881, or if certain frontages could be sold by the Corporation, and the set forward or other frontage were allowed, a net expenditure of Rs. 2,79,546.

It was agreed, therefore, that for the present a much smaller scheme should be recommended for adoption, and that the Commissioner should be asked to obtain fresh plans and estimates from the Executive Engineer on the basis of the lines laid down on the spot by the Sub-Committee.

These amended plans and estimates were received from the Commissioner under his Memorandum No. 9256, of 19th of the same month, copy of which is appended hereto, together with the Executive Engineer's last report on the subject.

The Sub-Committee, adhering to the opinion above indicated, now beg to recommend that sanction be given to the carrying out of the smaller scheme as shown on tracing marked B, at a cost not exceeding Rs. 34,487-8-0, which for the present does not involve more than the taking up of plots A, B, E, and K, on the tracing, the result of which would be that the approach to the street would be by a wide sweep, and that the inhabitants of the remaining tenements would be considerably benefitted by

the carrying out of these alterations, consequent on the opening up of the thoroughfare to the passage of the sea breeze. The properties, which it is proposed to acquire, shown on the tracing, together with the areas occupied, estimated value, &c., are as follows :—

Letter on plan.	No. of building on plan.	Area of ground occupied by the building.	Rate per square yard of the building.	Value of the building.	Area of land.	Rate per square yard of land.	Value of land.	Total value of both land and building.
A	4	975·16	4·50	4388·22	186·58	25	4664·50	10298·38
B	5	415·12	3·00	1245·66				
E	9	1127·00	3·00	3381·00	125·00	25	3125·00	6506·00
K	23	1434·08	1·13	1517·68	292·81	30	8784·30	10301·98
		Total...	...	10532·56	604·39	...	16573·80	27106·36
		Add 10 per cent for compulsory acquisition						4065·96
		Add 10 per cent for contingencies						2710·64
		Road Work						604·39
							Total.....Rs.	34487·35

G. W. ROUGHTON.
K. M. SHROFF.
S. REBSCH.
JAVERILAL U. YAJNIK.
COWASJEE HORMUSJEE.

Proposed by the Hon'ble Mr. Javerilal U. Yajnik, seconded by K. M. Shroff, Esq.—

No. 7999.

"That the report of the Sub-Committee on the proposed improvement of 1st Marine Street be approved and adopted, and that the same be forwarded to the Corporation with the recommendation that sanction be given to the acquisition of plots A, B, E, and K, as shown on the plan marked "B," submitted therewith, at an estimated cost of Rs. 34,487-8-0, to the debit of the grant for Street improvement."

Carried by 6 votes, *against* 1 vote.

Resolved: "That, as applied for by the Acting Commissioner, in his letter to the Secretary, No. 16611, dated 18th instant, sanction be given to the payment of Rs. 347-12-0, to Messrs. Walsh, Lovett & Co., being the amount of Import Duty paid by them, under the Indian Tariff Act, on 8 sweeping and 2 scraping machines. The amount to be met from the grant for road repairs."

No. 8000.

Resolved: "That, as applied for by the Acting Commissioner, in his letter to the Secretary, No. 16441, dated 17th instant, sanction be given, under section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. Richardson and Cruddas, whereby the period for the completion of their contract for the supply of cast-iron and galvanized sheet iron vent shafts, cast-iron manhole frames, and covers, &c., required for the Colaba Sewerage Works shall be extended from 31st January last to 22nd ultimo.

No. 8001.

"That this sanction is granted, provided that no claim is allowed for Import Duty levied on any article supplied subsequent to the due date of the contract."

Resolved: "That, as applied for by the Acting Commissioner, in his letter to the Secretary, No. 16794, dated 19th instant, sanction be given to the employment of an extra fitter at the Love Grove Pumping Station for 5½ months on Rs. 20 per mensem from 15th ultimo, for removing the old valve faces from the Pump valves and fixing the new ones when they arrive. The amount to be debited to Section I. B. Establishment, Love Grove Pumping Station."

No. 8002.

Read the following :—

BOMBAY, 19*th October* 1894.

To DR. T. S. WEIR, Acting Municipal Commissioner.

SIR,—With reference to the previous correspondence ending with your letter No. 16318 of the 16th instant, we have the honour to report that we paid in the sum of Rs. 18,451-9-9, being the amount of the Decree with interest up to the 16th instant, but ex-

Subject.
High Court Suit.
Cooverji Hirji and others
versus
Municipality.

clusive of the costs, into Court on the 17th ibid, and in doing so we had to pay a further sum of Rs. 184-8-0 in respect of poundage on the amount at 1 per cent.

We have therefore to request you to send us a further cheque for Rs. 184-8-0 in respect of the poundage aforesaid at your early convenience.—We have, &c.,

CRAWFORD, BURDER & Co.

No. 16891 OF *22nd October* 1894.

Copy forwarded to the Municipal Secretary, for the information of the Standing Committee. Under the circumstances, the Acting Commissioner has directed the Chief Accountant to make the necessary payment.

T. S. WEIR, Acting Commissioner.

No. 8003.

Resolved: "That memorandum No. 16891, dated 22nd instant, from the Acting Commissioner, to the Secretary, be forwarded to the Corporation, in continuation of the Committee's Resolution No. 7667, dated 17th idem, and with the recommendation that sanction be given to the further grant of Rs. 184-8-0, on account of the appeal lodged in the case of Cooverji Hirji & Co. *vs.* the Municipality.

"The amount to be met from the unexpended balance of the grants for the Construction of Roads in Agripada and elsewhere."

In accordance with notice, it was—

Proposed by K. M. Shroff, Esq.:—That the Acting Municipal Commissioner be requested to inform the Standing Committee of the approximate amount of law costs, both of the plaintiffs and defendant, in the suit of Cooverji Hirji and others *vs.* the Bombay Municipality.

The motion was seconded by the Hon'ble Mr. Javerilal U. Yajnik.

Amendment proposed by S. Rebsch, Esq., seconded by Captain Walshe—

"That the Acting Municipal Commissioner be requested to inform the Standing Committee of the approximate amount of law costs, both of the plaintiffs and defendant, in the suit of Cooverji Hirji and others *vs.* the Bombay Municipality.

"The information to be furnished as soon as the appeal has been decided."

The *Amendment* was *withdrawn* and the original motion was *lost*, the votes being 2 *for* and 6 *against* it.

No. 8004. *Resolved*: "That the consideration of the report of the Health Officer for the 2nd quarter of 1894 be postponed until next week."

No. 8005. *Resolved*: "That, as applied for by the Acting Commissioner, in his letter to the Secretary, No. 16905, dated 22nd instant, sanction be given to the acceptance by him of the tender of the Palej Lal Gin and Press Company, the lowest of 5 tenders received, for the supply of 3,000 casks of Portland cement, each cask to contain 380 lbs. net, at Rs. 7-8-0 per cask."

No. 8006. *Resolved*: "That, as applied for by the Acting Commissioner, in his memorandum No. 16916, dated 22nd instant, sanction be given to the transfer of Rs. 355, from savings in the grant for general supervision and miscellaneous duties, surveyors and draftsmen, Engineer's Budgets, to General Office Establishment, Section IV., Contingencies, Commissioner's Budget, to meet excess on the latter head, due to repairs to the roof of the Municipal Office, erection and removal of scaffolding for the examination of the lightning conductor and charges for repair of rain-water drain."

No. 8007. *Resolved*: "That, with reference to his letter to the Secretary No. 16775, dated 19th instant, the Acting Commissioner be requested to write and inform Messrs. Virchand Dipchand, Talakchand Manekchand, Motichand Harakchand and Dayachand Mulakchand, trustees of properties, C Ward, Nos. 5576 to 5578 (1) and 5574-75, 5565 (3), caste dining places for Hindus, that the matter of filing a suit for the recovery of taxes due in respect of the said properties has been placed before the Standing Committee for sanction, and that unless the amount is immediately paid, there will be no alternative but to take legal proceedings against the trustees."

Resolved : "That the following be *recorded* :—Letter No. 16445, dated 17th instant, from the Acting Commissioner to the Secretary, reporting that he has authorised the Superintendent of Markets to purchase eight pairs of bullocks for the meat van service from Messrs. Khursedji and Sons, to replace those that have died and those rendered unserviceable during the year, at the following rates :—

No. 8008.

Size hands.	Amount per pair.
12·2 to 13·1½	Rs. 150
Above 13·2	„ 200

"The cost to be met from the Budget Grant for the purchase of bullocks for the current pair."

Resolved : "That, as applied for by the Acting Commissioner, in his letter to the Secretary, No. 16440, dated 17th instant, sanction be given, under section 216 of the Municipal Act, to the writing off of Rs. 159-2-9, being the amount of irrecoverable bills as per list submitted for the quarter ending 30th September last. That in respect of the sum of Rs. 23 due by Mr. W. Garlick for wheel-tax, the Acting Commissioner be requested to write to Mr. Garlick and demand payment of such amount."

No. 8009.

Read the following :—

No. 3764.

GENERAL DEPARTMENT,

BOMBAY CASTLE, *8th October* 1894.

Letter from the Municipal Commissioner for the City of Bombay, No. 10591, dated 6th August 1894—Forwarding a copy of Resolution No. 4873 of the 2nd idem, of the Municipal Corporation; requesting that this Government will be pleased to move the Government of India to modify the terms under which the raising of the loan of Rs. 23¼ lakhs sanctioned by them in their letter No. A.—958 of 21st February 1894, was publicly advertised so that 10¼ lakhs may be issued between 1st July and 31st December 1895, instead of 8 lakhs being issued between 1st July and 31st December 1894 and 2¼ between 1st July and 31st December 1895; and making remarks.

Letter from the Government of India, Department of Finance and Commerce, No. 4630-A., dated 15th September 1894 :—

"I am directed to acknowedge the receipt of your letter No. 3318, dated the 1st September 1894, and enclosures, relating to a

proposal submitted by the Municipal Corporation of the City of Bombay to make an alteration in the terms of the loan of Rs. 23¼ lakhs, the raising of which was sanctioned in the letter from this Department, No. 958, dated the 21st February 1894.

"2. In accordance with the terms sanctioned, Rs. 13 lakhs have been already raised, and of the balance of Rs. 10¼ lakhs, Rs. 8 lakhs have to be raised between the 1st July and the 31st December 1894 and Rs. 2¼ lakhs between the 1st July and the 31st December 1895. It is now proposed to defer the raising of the instalment of Rs. 8 lakhs during 1894 and to raise the whole balance of Rs. 10¼ lakhs between the 1st July and the 31st December 1895.

"3. I am to say that the Governor General in Council sanctions the proposal."

RESOLUTION.—Copy of the letter from the Government of India, No. 4630-A., dated 15th September 1894, should be forwarded to the Municipal Commissioner for the City of Bombay for information.

G. S. CURTIS,
Under-Secretary to Government.

No. 16350 OF 16*th October* 1894.

Copy forwarded to the Municipal Secretary for the information of the Standing Committee and the Corporation.

T. S. WEIR, Acting Commissioner.

Resolved: "That the following be forwarded to the Corporation for information :—Memorandum No. 16350, dated 16th instant, from the Acting Commissioner to the Secretary, forwarding, for the information of the Standing Committee and the Corporation, Resolution of Government, No. 3764, General Department, dated 8th idem, on the subject of the raising of the balance of 10¼ lakhs of the 23¼ lakhs loan for drainage and other works."

No. 8010.

Resolved: "That the following be laid on the table :—Letter, dated 22nd instant, from Messrs. Ardaseer Framjee Moos and Nanabhai R. Ranina, stating that they have audited the weekly statement of receipts and disbursements at the end of each week for the month of September last, and compared them with the general and subsidiary ledgers and journals and found them correct. Forwarding the usual summary and statement of their scrutiny of accounts."

No. 8011.

The following statement* was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes for the week ending 21st October 1894.

BOMBAY, 31*st October* 1894.

AT the meeting of the Standing Committee held this day, there were present :—

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L. M. ; COWASJEE HORMUSJEE, ESQ., G.G.M.C. ; THE HON'BLE MR. FAZULBHOY VISRAM ; HURKISONDAS NURROTUMDAS, ESQ. ; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK ; K. M. SHROFF, ESQ. ; S. REBSCH, ESQ., ASSO. M.I.C.E. ; ACCACIO G. VIEGAS, ESQ., L.M. & S. ; R. H. VINCENT, ESQ., C.I.E. ; CAPT. W. P. WALSHE, Surgeon-Lieut.-Col. T. S. WEIR, Acting Commissioner ; and the SECRETARY.

A note, dated Matheran, 28th instant, from Mr. G. W. Roughton, the Chairman, apologizing for non-attendance, was received by the Secretary.

On the motion of S. Rebsch, Esq., seconded by R. H. Vincent, Esq., Cowasjee Hormusjee, Esq., was voted to the Chair.

The minutes of the meeting held on the 24th instant, were signed.

No. 8073. The seal of the Corporation was affixed to deed of contract (in duplicate) with Messrs. Richardson and Cruddas, for the supply of stoneware pipes, junctions, &c., for the sewerage of Parel.

No. 8074. *Resolved* : "That the following be circulated :— Memorandum from the Acting Commissioner, No. 17028, dated 23rd instant, to the Secretary, on the subject of lease of land in Agripada."

No. 8075. *Resolved* : "That, as applied for by the Acting Commissioner in his memorandum No. 17636, dated this day, sanction be given to the cutting off of water connection as per list submitted."

No. 8076. *Resolved* : "That, as applied for by the Acting Commissioner in his memoranda Nos. 17026 and 17027, dated 23rd instant, sanction be

* *See* Appendix B.

given, under section 351 (2) of the Municipal Act, to the removal of the following structures built without permission :—

Names of owners.	Where.
Bai Sakinabai	Shed at Falkland Road Cross Lane.
Mr. Adamji Peerbhoy	Shed at Carroll Road.

Proposed by Bhalchandra K. Batawadekar, Esq., seconded by A. G. Viegas, Esq.—

No. 8077. *Resolved* : "That, with reference to his Report for the 2nd quarter of 1894, the Health Officer be requested to suggest the measures which, in his opinion, would tend to reduce the high rate of mortality."

"That the Report be passed on to the Corporation." *Carried.*

No. 8078. *Resolved* : "That, as applied for by the Acting Commissioner in his letter to the Secretary, No. 16663, dated 18th instant, sanction be given to the grant of Rs. 20 per mensem as travelling allowance to Mr. Jamsetjee Dossabhai Karani, Surveyor, Drainage Department, for supervising the work of filling in and draining the compound of the Small-pox Hospital, at Arthur Road, for a period of five months, in addition to his own duties, from 28th September last. The amount to be debited to the contingent provision for the work. That the Commissioner be asked to arrange in future that such special works should be supervised by the officer in whose district the work happens to lie, without extra payment."

No. 8079. *Resolved* : "That, as applied for by the Acting Commissioner in his letter No. 17120, dated 24th instant, sanction be given to the acceptance by him of the tender of Mr. Dewram Keshowji, the lowest of six tenders received for the work of constructing new offices at Null Bazaar for the Streets and Building branch of the Executive Engineer's Department, at schedule rates, aggregating Rs. 11,248-5-5, *plus* Rs. 1,181-12-8 for contingencies and establishment. The cost to be met from the grant of Rs. 13,000 for the work."

Resolved: "That, as applied for by the Acting Commissioner in his memorandum No. 17025, dated 23rd instant, sanction be given to the transfer of Rs. 400 from savings in the grant for Markets and Slaughter Houses VI, Meat Carriage, purchase of live-stock, to same branch, IX contingencies, to meet excess on the latter head, due to extra printing, and auctioneers' charges in respect of the new sheep market, DeLisle Road, the purchase of land for the market compound and of furnaces for the adjustment of weights and measures."

No. 8080.

Resolved: "That, as applied for by the Acting Commissioner in his memorandum No. 17031, dated 23rd instant, and subject to the approval of the Corporation under section 133 (2) of the Municipal Act, sanction be given to the transfer of Rs. 3,454, from savings in the grant for B Public lighting branch, I gas lighting, to Markets and Slaughter Houses, section V, lighting Markets (other markets) to meet the cost of putting up incandescent gas lamps in the Fort, Erskine Road, and Pedder Markets."

No. 8081.

Resolved: "That letter No. 16935, dated 22nd instant, from the Acting Commissioner to the Secretary, be forwarded to the Corporation with the recommendation that sanction be given to the grant of Rs. 1,135 to meet the cost of providing house connection to the house owned by Mr. Pochaji Byramji Batliboi, situate at Tardeo Road, in the first drainage section. The cost to be debited to the grant for house connections, first drainage section.

No. 8082.

After discussion, it was agreed that the following be referred back to the Acting Commissioner for report as to how the charge in question can be met. Letter No. 16223, dated 22nd instant, from the Acting Commissioner to the Secretary, requesting sanction to the continuance of the employment of the establishment provided in the Loan Works Budget for 1894-95 up to the end of September 1895, in connection with the construction of the Bori Bunder bigaries' chawl. The amount to be met from the contingent provision for the work.

Resolved: "That, as applied for by the Acting Commissioner in his letter to the Secretary, No. 17171, dated 24th instant, sanction be given to the purchase from Messrs. Khambatta & Co., of 200 tons of Great Western Cardiff coal and 200 tons of Davison's West Hartley coal at Rs. 18-4-0 per ton for the Love Grove Pumping Station. The cost to be met from the grant for coal section 2, B Maintenance.

No. 8034.

"That, under the terms of section 72 (3) of the Municipal Act, the Committee dispense with the invitation for tenders which would otherwise be necessary, as the coal is required at once, and as similar arrangements for the purchase of coal have proved advantageous to the Municipality."

Resolved: "That the following be *recorded*:—Letter No. 17175, dated 24th instant, from the Acting Commissioner to the Secretary, reporting that he has authorized the Chief Officer of the Fire Brigade to purchase two horses for the Fire Brigade at an estimated cost of Rs. 1,700, to the debit of Section III, Purchase of Horses, Fire Brigade Budget."

No. 8085.

Considered letter to the Secretary, No. 16909, dated 22nd instant, from the Acting Commissioner, as under :—

SIR,—I have the honour to report, for the information of the Standing Committee and the Corporation, that Mr. T. Glover was in charge of the Health Department from the 18th August to 5th September 1894, inclusive, before Dr. Kirtikar took charge of the appointment of Health Officer. I have to request the sanction of the Standing Committee and Corporation to the payment of such allowance as may be fixed under sections 74 (*c*) and 75 (3) to Mr. Glover.—I have, &c.,

T. S. WEIR, Acting Commissioner.

Resolved: "That letter No. 16909, dated 22nd instant, from the Acting Commissioner to the Secretary, be forwarded to the Corporation with the recommendation that Mr. T. Glover's appointment as Acting Health Officer be sanctioned under the terms of Section 85 of the Municipal Act from the time he took charge from Surgeon-Lieut.-Col. Weir, 18th August last, until the date when Mr. Glover handed over charge to Surgeon-Major K.

No. 8086.

R. Kirtikar, on 5th September, and that sanction be given to the payment to Mr. Glover of an acting allowance of Rs. 408-1-1, being $\frac{2}{3}$ of the difference between his permanent pay and the pay of the Health Officer, less the acting allowances already drawn by Mr. Glover as Acting Assistant Health Officer.

"The cost to be met from the savings in the grant for the Health Officer's Salary."

Resolved: "That, as applied for by the Acting Commissioner in his letter to the Secretary, No. 16936, dated 22nd instant, the Standing Committee approve, under the terms of section 381 of the Municipal Act, of a notice in writing being served on Mr. Rustomji N. B. Jeejeebhoy to empty and fill in with sweet earth the tank in the compound of his stables at Babula Tank Road, as the water in it is reported to be sewage or liquid filth."

No. 8087.

Considered the following :—

No. 8053 OF 1894-95.

BOMBAY, 30*th October* 1894.

TO THE CHAIRMAN, STANDING COMMITTEE.

SIR,—I have the honour to forward the following resolution passed at the meeting of the House Connections Committee held on the 26th instant. That the Standing Committee be informed that this Committee are still engaged in considering their report, and that as soon as they have agreed on the general principles regarding house connections, they will be in a position to express an opinion on the matter referred to in the Standing Committee's Resolution No. 7997, dated 24th instant.—I have, &c.,

H. W. BARROW, Municipal Secretary.

Resolved: "That letter No. 8053, dated 30th instant, from the Secretary to the Chairman, be *recorded*."

No. 8088.

Considered again letter to the Secretary, No. 15576, dated 5th instant, from the Acting Commissioner, on the question of the construction of temporary drain at Colaba.

Also the following :—

No. $\frac{D}{5407}$ OF 1894-95.

BOMBAY, 22*nd October* 1894.

TO THE MUNICIPAL COMMISSIONER.

SIR,—Referring to your No. $\frac{15928}{11\text{-}10\text{-}94}$, I have the honour to state that the excavation near the spot where Mr. Haji Usman Haji

Latif's house stands will vary from about 2 feet to 2 feet 6 inches in depth. 2. The foundations of the house must be very much deeper than that, or the building would probably not have stood to the present time. I do not apprehend that the construction of the drain will involve any risk or damage whatever to Mr. Haji Usman Haji Latif's building.—I have, &c.,

JAMES W. SMITH, Acting Drainage Engineer.

No. 17256 of 25th October 1894.

Copy forwarded to the Municipal Secretary in reference to the Standing Committee Resolution No. 7388 of the 10th instant.

T. S. WEIR, Acting Commissioner.

No. 8089. *Resolved*: "That, with reference to letter to the Secretary, No. 15576, dated 5th instant, memorandum to ditto, No. 17256, dated 25th idem, from the Acting Commissioner, and the Corporation's Resolution No. 2877 of the 14th June last, the Corporation be recommended to sanction the construction of temporary drain at Colaba Causeway, as temporary arrangements are necessary, and it is reported that the proposed open drain can be constructed without risk of damage to Haji Usman's house thereat."

No. 8090. *Resolved*: "That the following be forwarded to the Acting Commissioner for favour of report, and that the applicant be informed accordingly :—

Letter, dated 24th instant, from Mr. David Soloman, complaining of the way in which the temporary drainage works are carried on at Paidowni."

Read the following :—

To the PRESIDENT and MEMBERS of the
STANDING COMMITTEE, Bombay.

Gentlemen,—I most respectfully beg to send you a copy of my memorial to Lord Harris, the Governor of Bombay, for your information and consideration, and in doing so I venture to inform you that I continue to stand by all that I have said in it about your selfishness, and what I have thus said you will not be able to confute, and Mr. Acworth moreover, according to his religion, will eventually confess the part he has taken with you in the wrong you have done by rejecting my invention for city drainage which for saving the lives of the poor labourers who now have to enter drains for cleansing purposes.

If you sincerely have the welfare of the city at heart you will reconsider your decision; if not, then will you kindly pass on to the Viceroy all the correspondence between us, so that he may see that I have exhausted all my resources in Bombay, my native town; and, when you have done so, will you please inform me as I intend to appeal to the Viceroy. I have done my best, and now do nothing more.—I remain, &c.,

FRAMJI ADURJEE AIBARA.

Bombay, 25th October 1894.

No. 8091. *Resolved*: "That the following be *recorded*, and that applicant be informed accordingly:—Letter, dated 25th instant, from Mr. Framjee Adurjee Aibara, forwarding copy of memorial addressed by him to the Bombay Government, on the subject of his drainage scheme."

No. 8092. *Resolved*: That the following be *recorded*:—Memorandum No. 17030, dated 23rd instant, from the Acting Commissioner, reporting, with reference to the Committee's Resolution No. 4484, dated 3rd October 1888, the transfer, on the 13th instant, of Rs. 1,50,000 from the 23¼ Lakhs Loan for Drainage and other works Deposit Account to the Municipal General Fund Pass Book.*

No. 8093. *Resolved*: "That the following be circulated and brought on for consideration at the next meeting:—Memorandum No. 17293, dated 26th October 1894, from the Acting Commissioner to the Secretary, forwarding, for the information of the Standing Committee and the Corporation, report from the Acting Health Officer on the subject of the outbreak of cholera in the Sir J. J. Hospital."

No. 8094. *Resolved*: "That the report of the Sub-Committee on the question of improvement of Barber Lane be printed and circulated and brought on for consideration next meeting."

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* The Acting Chief Accountant reports to the Acting Commissioner that the balance remaining to the credit of this account, after effecting the above transfer, is—

In 3½ per cent. Government paper for Rs. 1,13,000.	Rs.	1,19,357	5 6
In Cash	„	5,599	4 1
	Rs.	1,24,956	9 7

The following statement † was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes, for the week ending 29th July 1894.

BOMBAY, *7th November* 1894.

AT the meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KHRISHNA BHATAWADEKAR, ESQ., L.M. ; COWASJEE HORMUSJEE, ESQ., G G.M.C. ; THE HON'BLE MR. FAZULBHOY VISRAM ; HURKISONDAS NURROTUMDAS, ESQ. ; THE HON'BLE MR. JAVERILAL UMIASHANKER YAJNIK ; K. M. SHROFF, ESQ. ; S. REBSCH, ESQ., ASSO. M.I.C.E. ; ACCACIO G. VIEGAS, ESQ., L.M. & S. ; R. H. VINCENT, ESQ., C.I.E. ; CAPTAIN W. P. WALSHE. Surgeon-Lieutenant-Colonel T. S. WEIR, Acting Commissioner ; and the SECRETARY.

The minutes of the meeting held on the 31st ultimo were signed.

A letter, dated Deolali, 6th instant, was received from Mr. Kaikhosro N. Kabraji, apologizing for non-attendance.

No. 8334. *Resolved* : "That, as applied for by the Acting Commissioner in his memorandum No. 18161 dated 5th instant, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 8335. *Resolved* : "That, as applied for by the Acting Commissioner in his memorandum No. 17746, dated 1st instant, sanction be given, under section 351 (2) of the Municipal Act, to the removal of the following structure built without permission :—

Name of owner.	Where.
Mr. Khimraj Shricrishna	.....Shed at the junction of Khetwady Back Road and Khambatta Lane.

Proposed by the Hon'ble Mr. Javerilal U. Yajnik, seconded by A. G. Viegas, Esq.—

No. 8336. "That the consideration of letters Nos. 16223 and 18316, dated 22nd ultimo, and this day, from the Acting Commissioner to the Secretary, be deferred until next week, and that in the meantime the Acting Commissioner be asked to report why an establishment was employed when there was no work for them to do."

Carried.

† *See* Appendix B.

Considered the following :—

No. 24067 OF 19*th October* 1894.

TO THE MUNICIPAL COMMISSIONER.

With reference to para. 1 of Resolution No. 5215, of the Standing Committee, dated 8th August 1894, it may be observed that in this office letter No. 15745, of 6th August 1894, applying for sanction to the temporary employment of the marginally noted establishment, no mention was made of work required to be performed in J. J. Hospital compound. The Hospital was not specifically mentioned, though doubtless it was included among the places where cholera cases had occurred. From the wording of this part of the Resolution of the Standing Committee, it might appear that the Standing Committee are probably under the impression that the employment of the temporary staff was solely for the J. J. Hospital, but it was not so, as will be seen from the details given in the concluding part of this letter.

1 Sub-Inspector
30 Bigaries.
10 Women.

With reference to para. 3, I have the following observations to make *seriatim* ; the number in parenthesis referring to the questions put up by the Standing Committee. (1). The J. J. Hospital compound is looked after by the servants and sweepers in the employ of the Hospital authorities. This Department is therefore unable to say how long the cutchra removed from the Hospital compound has been lying there. The cutchra consisted of stable litter mainly, from the compound of the Hospital and places outside it and in its close vicinity. (2). There was no choking of the Hospital sewers or of those in its close vicinity. They were all opened up and found to be in thorough working order. They contained no more accumulation of solid matter than is to be seen in any ordinary working drain. (3). With regard to the question whether the Health Officer can assign any definite cause for the epidemic in the J. J. Hopital, I regret to say, I am not in a position to do so. Personally speaking, I am labouring under a double difficulty. In the first place, the data on which I have to base my calculations and draw my conclusions with regard to events which occurred long before I came here, must, to a new comer like myself and holding only a temporary charge, come second-hand. Secondly, after such a lapse of time, and especially after the epidemic has long since disappeared, there is no likelihood of any fresh data forthcoming. Moreover, at the best of times, on a question where there are so many theories regarding the actual causation of cholera, even from personal observation of such epidemics, it would be hazardous to single out this or that condition or theory to account for the occurrence of Cholera. It would be utterly unscientific even if it were wise to fix upon any particular condition or circumstance as the special or definite cause of the epidemic in the J. J. Hospital on mere supposition or on second-

hand information regarding a question of such vital importance. Any opinion expressed on second-hand information (presuming such information to be correct, for I do not feel myself qualified to do otherwise) or any attempt to explain the occurrence of the epidemic on such information at this distance of time, must necessarily be of a speculative character. There are, however, a few general conditions which may well be noted here. The surroundings, for instance, of the J. J. Hospital are anything but satisfactory. The Hospital compound is bounded on the North by the buffalo stables, known as Dâwani, to the east of the hospital, not far from the servants' quarters, is the reclaimed ground over a quarry hole belonging to the late Mr. Byramji Jijeebhoy, C. S. I. The reclaimed ground is nothing but a heap of stable refuse. It is below the level of the road, and is now very largely built on in the shape of substantial stables. These are let out as livery stables. The compound of these livery stables is not properly drained. It has always been a source of great nuisance. In this compound there is a large tank which contains nothing but liquid filth. A recent analysis of water from this tank, made by me, indicated 10 grains of chlorine per gallon. This is a very high percentage. The water is very offensive to smell. I am taking immediate action against the owner to have the tank filled in at once with sweet earth. This tank fouls the water of the tanks in Bai Motlibai Hospital. The water of one of the tanks in Bai Motlibai Hospital compound on analysis showed 8 grains of chlorine per gallon. In both these waters there was abundance of free ammonia. To the south of the J. J. Hospital stands the Babula Tank. It is a matter of congratulation that the part immediately close to the road between the tank and the J. J. Hospital has been reclaimed. It would be still better if the whole of the tank is filled in with sweet earth. As it is at present, it is merely a receptacle for liquid filth, sewage not excluded. The squalid walls of this dismal tank show evident signs of filth trickling down their chinks and crevices. An analysis of water from this tank also recently made by me, showed a sufficiently large quantity of chlorine (15 grains per gallon) to justify the assertion that the water of this tank is contaminated with sewage.

Both the Dâwani and the Byramji Jijeebhoy property have been, to this office, a source of almost voluminous correspondence, embodying several complaints from the neighbours and from this Department. It is my opinion, that the Dâwani Stables should not be allowed to continue any longer in their present position as buffalo stables. The corner of this stable yard to the North of the Bai Motlibai Hospital compound is a regular puddle, and I am taking immediate action to have it put right. There are on an average 520 horned cattle tethered there night and day. There are besides other cattle that come for the day and go away leaving their excreta behind. The owners of the stables are not

in a position to dispose of the excreta as they are formed ; the result is that on my visiting the place recently, I found that right along the corner of the Bai Motlibai Hospital there was a large quantity of cattle excreta literally allowed to rot where it lay. The Byramji Jijeebhoy property over the reclaimed quarry hole has also been a place much objected to by this Department as being always in an insanitary condition, ever since it was *formed* and converted into a habitable ground. So far back as 1887, Dr. Weir, finding that this newly formed ground, this heap of rubbish was being built on, addressed a letter to the Engineering Department, pointing out that the reclaimed ground was low and unfit for building purposes as it had been formed from refuse. Dr. Weir personally noticed at the time that there was an offensive smell from the trenches dug for the foundations of the buildings that are now standing there ; but in spite of objections from this office, the ground was allowed to be built on. Even now the owner is under notice. It is my opinion that the tank on this property should no longer be allowed to remain but must be filled in at once with sweet earth. With surroundings, such as these, it is a wonder that the J. J. Hospital has not suffered more on the present occasion and has practically escaped suffering in the past. (4) With regard to the question under this head, I may state that 27 carts were employed for a whole day, and the rubbish removed was principally stable litter from the Hospital compound and its immediate neighbourhood. It may be remarked, here, in a general way, that the particular purposes for which extra hands were temporarily employed during the prevalence of epidemic and infectious diseases in the City are :—(*a*) The prompt and more complete removal of the refuse and filth from the districts affected. (*b*) A thorough cleansing and disinfecting of houses and their surroundings where cases of infectious diseases have occurred.

The procedure generally is as follows :—An inspection of the premises, removal of refuse, opening up for inspection, drains, gully traps, cesspools, privies, &c., and the cleansing and disinfection of all these places before being closed again. There may be no appreciable quantity of filth to be removed from the already affected premises, but as a matter of precaution and for the prevention of the spread of the diseases, thorough cleansing, disinfection, fumigation, &c., have to be carried out. When a case or cases of cholera occur in a house, there is a good deal of work to be done on the premises, though the house may be apparently as clean as any other house in the neighbourhood. This explanation is necessary to avoid the supposition, which, if entertained, would be erroneous that where so much work has tobe done, or has been done, there must be or must have been much filth to be removed. (5) We remove to the Infectious Diseases Hospital, with as little delay as possible, all cases of

cholera as they are reported to us, and we help the police with carriage to convey such cases as are brought to their notice. (6) In reply to my enquiries under this head, the senior medical officer of the J. J. Hospital informs me that as soon as a case of cholera showed symptoms exciting suspicion that it was probably a cases of cholera justifying removal to the Infectious Diseases Hospital, it was sent away immediately the ambulance was available. It was this Department that supplied the J. J. Hospital with vans for the purpose of removal of the affected men. (7) The total number of deaths which occurred in connection with the J. J. Hospital cholera epidemic is registered as follows:—

Deaths in J. J. Hospital	46
Do. in Municipal Infectious Diseases Hospital...	10
Do. outside J. J. Hospital but attacked in J. J. Hospital. Treated by Surgeon-Major Anderson at the patients' house in Kamathipura.....	1
Total...	57

On the 5th August last the Senior Medical Officer in charge of the J. J. Hospital asked for the assistance of the Health Department in the removal of stable litter from the dairy shed of the Hospital. He also said he was in need of help to disinfect the servants' quarters. The following statement shows the number of Health Department persons employed in the J. J. Hospital and the number of days they worked, and the nature of the work on which they were engaged :—

8 Men employed on fumigation, sulphur fires, &c., for.....	6 days.
12 Men on disinfection work for.....	2 days.
15 Men and 16 women on milch cattle stable litter, &c., for	1 day.
12 Men and 10 women employed in spreading fresh earth over places where necessary for	1 day.
13 men and 10 women on do for.....	1 day.

A statement showing the cost of the labour and other charges is hereto appended. The disinfectants and the cost of the materials used for fumigation and sulphur fires are not entered in the statement. These were used in the interest of the public health to prevent the spread of the disease.

K. R. KIRTIKAR, Acting Health Officer.

No. 17293 of 26th October 1894.

Copy forwarded to the Municipal Secretary in reference to the Corporation Resolution No. 6526 of the 10th ultimo, and Standing Committee's Resolution No. 7101 of 26th September 1894. T. S. WEIR, Acting Commissioner.

TABLE showing how the extra staff was employed in the J. J. Hospital Compound in connection with the Cholera outbreak :—

Particulars.	Amount.			Total.		
	Rs.	a.	p.	Rs.	a.	p.
8 men on sulphur fires for 6 days, at Rs. 9 each per month.....	13	14	8			
12 men on disinfecting work for 2 days, at Rs. 9 each per month...	6	15	0			
15 men on milch cattle stable litter for 1 day, at Rs. 9 each per month	4	6	0			
16 women on milch cattle stable litter for 1 day, at Rs. 6 each per month	3	1	4			
12 men in spreading fresh earth for 1 day, at Rs. 9 each per month...	3	8	0			
10 women in spreading fresh earth for 1 day, at Rs. 6 each per month	1	14	10			
13 men in spreading fresh earth for 1 day, at Rs. 9 each per month...	3	12	8			
10 women in spreading fresh earth for 1 day, at Rs. 6 each per month	1	14	10			
				39	7	4
50 loads of fresh earth supplied, 5 loads per brass, at Rs. 2-11-0 per brass	26	14	0			
				26	14	0
27 carts for 1 day, at Rs. 1-11-0 per cart per day.....	45	9	0			
				45	9	0
Total... Rs.	.....			111	14	4

PUBLIC HEALTH DEPARTMENT, BOMBAY, 19*th October* 1894. } K. R. KIRTIKAR, Acting Health Officer.

No. 8337.

Resolved : "That memorandum No. 17293, dated 26th ultimo, from the Acting Commissioner, forwarding report from the Acting Health Officer on the subject of the outbreak of cholera at the Sir J. J. Hospital be *recorded,* as the papers have already been forwarded for consideration at the November

meeting of the Corporation, where members will have an opportunity of discussing the question."

Considered the following :—

Proposed Improvement of Barber Lane.

"That letter No. 1528, dated 3rd instant, from the Acting Commissioner to the Secretary, be referred to a Sub-Committee, consisting of the following members for report :—The Chairman, Messrs. Cowasjee Hormasjee, K. M. Shroff, and S. Rebsch."

The Sub-Committee appointed on the 10th instant, as per margin, beg to report that, accompanied by the Acting Commissioner, they have inspected the property in question. No. 78-80, Barber Lane, belonging to Mr. Dadabhai Nowroji Davar, shown on the tracing attached. The house covers an area of 266·41 square yards, of which 169 yards are required for improving the line of the street (*see* the portion of ground hatched in red on the tracing), and the owner contends that if this large part of his land is acquired by the Municipality, the remaining portion, 97·41 yards with a frontage of only ten feet would be but of little value to him. He is not willing, therefore, to give up such a large part of his property, but agrees to sell the whole for Rs. 14,000, although, at first, he demanded Rs. 20,000. This represents Rs. 75 per square yard, including the building. Under section 298 of the Municipal Act, the Municipality have the power to take only such land as may be necessary for the improvement of the street ; but it is considered advantageous to purchase the whole property and re-sell the portion not required for the improvement of the street, as otherwise a large amount will have to be paid to the owner of the property as compensation for loss, damage, &c.

The lane along the whole length of this house, nearly 86 feet, is but 8′ 6″ wide, and greatly needs improvement. By adding the 169 yards to the road-way, the lane at its eastern end would be 25 feet wide, and such an arrangement would not only be of great service to the ordinary traffic of the place, but would be of considerable advantage in a sanitary point of view, as it would allow of the free passage of air between Pitha Street on the west, and the crowded quarter of Cowasjee Patel Street.

The Executive Engineer estimates that Rs. 4,446 will be realized by the sale of the 97 yards of ground not required for street improvement, and from the sale of the old materials of the building, namely, Rs. 1,946, at Rs. 20 per square yard for the ground, and Rs. 2,500 for the materials.

According to this estimate the net cost of this set-back would be Rs. 9,554, and, under the circumstances, the Sub-Committee recommend that the necessary sanction should be applied for the taking up of the whole area of 266·41 yards.

G. W. ROUGHTON.
K. M. SHROFF.
S. REBSCH.

30*th October* 1894.

Resolved : "That the report of the Sub-Committee on
No. 8338. the proposed improvement of Barber Lane be adopted and forwarded to the Corporation as the report of the Standing Committee with the recommendation that sanction be given (1) to the taking up of the 261 square yards, or thereabout, of ground in question at a cost not exceeding Rs. 14,000 to the debit of the Budget grant for street improvement, and (2) to the sale of the 97 yards, or thereabout, of land remaining, not required for street improvement."

Resolved : "That, as applied for by the Acting Com-
No. 8339. missioner in his letter No. 17623, dated 31st ultimo, sanction be given (1) to the acceptance of the tender of Mr. Sayaji Nagoji for constructing a retaining wall at Walkeshwar Road, Rs. 14,364-12-0 ; and (2) to the repairing of the Road after the wall is completed by the Road Department at a cost of Rs. 2,004, *plus* establishment and contingencies, Rs. 1,861, or a total Rs. 18,229-12-0. The cost to be met from the sanctioned grant of Rs. 19,353."

Considered letter No. 17625, dated 31st ultimo, from the Acting Commissioner tothe Secretary, as under :—

SIR,—In reference to the Standing Committee Resolution No. 7219 of the 3rd instant, I have the honour to report that there is only a saving of Rs. 44-8-2 on the work, while the amount of estimate is Rs. 769. It will, therefore, be necessary to meet the expenditure out of the Surplus Cash Balance as already proposed.—I have, &c.,

T. S. WEIR, Acting Commissioner.

Resolved : "That letters No. 14986 and 17625, dated
No. 8340. 1st and 31st ultimo, from the Acting Commissioner to the Secretary, be forwarded to the Corporation with the recommendation that sanction be given to the grant of Rs. 769, from Surplus Cash Balance, to meet the cost of laying a pipe drain for the carriage of waste water from the temporary bigaries' chawls, Frere Road, to the sewer thereat."

Considered letter No. 17653, dated 31st ultimo, from the Acting Commissioner to the Secretary, as under :—

SIR,—I have the honour to report that the Corporation under their Resolutions, Nos. 829 and 949, of the 20th and 27th July 1883, sanctioned a compassionate allowance of Rs. 360 to be paid to Sundrabai and her brother Pandurang Ramchandra in consideration of the services of their late father Ramchandra Pandurang

who was employed as a Receiver in the Assessment and Collection Department. A cheque for the amount was prepared and kept ready, but no one applied for the payment of the money until March last, when the amount was credited to the Municipal Fund on the 31st March 1894, as the claim was time-barred. On the 29th May 1894, Sundrabai made an application claiming the compassionate allowance sanctioned by the Corporation but which had remained unclaimed, a copy of her application is herewith forwarded.

I beg, therefore, to submit the case to the Standing Committee for their consideration.—I have, &c.,

T. S. WEIR, Acting Commissioner.

BOMBAY, *29th May* 1894.

TO THE MUNICIPAL COMMISSIONER for the City of Bombay.

SIR,—I beg to inform you that a few days ago my father-in-law came to understand from a reliable source, a cheque of Rs. 360 on account of gratuity payable to me and my brother Pandurang Ramchandra in consideration of the services of my father Ramchandra Pandurang, who was Receiver in the Assessment Department, and died on the 12th September 1881, is lying in the Chief Accountant Office unclaimed.

My brother Pandurang died about 12 years ago, when I was a child of 8 years old, and I did not know until now that the above mentioned amount, the gratuity on account of the services of my father is still outstanding in the Municipal accounts without being claimed.

I am married to Mr. Gopal Vishnoo Atavale who is employed in the Commissariat Department at Mhow, and have three children. As my husband is in poor circumstance, it would be a great assistance to me if you kindly direct the said amount to be paid to me as early as possible.

May I, therefore, request the favour of your kindly seeing the necessary orders for payment of the same to me.—I beg, &c.,

SUNDARABAI.

No. 8341. *Resolved*: "That, with reference to resolution of the Town Council, dated 15th June 1883, and resolutions of the Corporation Nos. 829 and 949, dated 20th and 27th July 1883, sanctioning the payment of Rs. 360 as compassionate allowance to Sundrabai and her brother Pandurang Ramchunder, in consideration of the services of their father Ramchunder Pandurang, Receiver in the Assessment Department, which amount not having been claimed by the said Sundrabai and Pandurang was in March last treated as a time-barred claim, and carried to the credit of the

Municipal Fund, the Corporation be recommended to sanction, as a special case, the payment of the said sum from Surplus Cash Balance to Sundrabai, and the widow of the said Pandurang Ramchunder, since deceased, and subject to the Commissioner being satisfied that these two are the persons entitled to the sum in question.

Resolved: "That, as applied for by the Acting Commissioner, in his letter to the Secretary, No. 17652, dated 31st ultimo, sanction be given to the purchase, for the Health Department, from Messrs. Kharshedji and Sons, Kirkee, of 18 pairs of bullocks at Rs. 150 per pair, and 7 pairs at Rs. 120 per pair. The cost to be debited to the Budget grant for the same.

No. 8342.

"That under the terms of section 72 (3) of the Municipal Act, the Committee dispense with the invitation for tenders, which would otherwise be necessary, as Messrs. Kharshedji and Sons have for many years supplied this Municipality with bullocks."

Resolved: "That, as applied for by the Acting Commissioner, in his letter to the Secretary, No. 17624, dated 31st ultimo, and under the Pension Regulations, sanction be given to the payment to Mr. M. X. D'Souza, Clerk, Executive Engineer's Office, of a monthly pension of Rs. 26-9-11 from 1st instant. The amount to be met from the grant for Pensions and Gratuities, current year's Budget."

No. 8343.

Read the following letter No. 17463, dated 26th ultimo, from the Acting Commissioner to the Drainage Engineer :—

Sir,—As the wish of the Corporation was strongly expressed yesterday that the cleaning of the Frere Road sewer should be finished at once, I have the honour to request that you will order the number of openings estimated in your No. 4679 of the 22nd ultimo, be constructed, and the cleaning of the sewer proceeded with under the conditions formerly observed.—I have, &c.,

T. S. WEIR, Acting Commissioner.

Read also the following :—

No. 17655 of 31st October 1894.

Copy forwarded to the Standing Committee for information.

The cost of providing side entrances is estimated by the Drainage Engineer at Rs. 7,011, and the cost of cleaning will be reported hereafter. The amount of Rs. 7,011 will be met from the Surplus Cash Balance.

The state of the Surplus Cash Balance is as given below. Surplus ascertained after the closing of accounts for 1893-94 Rs. 1,80,786.

Out of which expenditure (excluding temporary advances to be adjusted hereafter) has been sanctioned to the extent of	Rs.	1,30,806	2	9		
Expenditure recommended for sanction	„	14,826	8	0		
					1,45,632	10	9
Balance available...	Rs.				35,153	5	3

T. S. WEIR, Acting Commissioner.

No. 8344. *Resolved* : " That memorandum No. 17655, dated 31st ultimo, from the Acting Commissioner to the Secretary, reporting that the cost of providing side entrances to the Frere Road sewer will be Rs. 7,011, be forwarded to the Corporation with reference to their Resolution No. 8035 of 25th October 1894, and with the recommendation that sanction be given to the grant of that sum from Surplus Cash Balance."

No. 8345. " That the following be recorded :—Letter No. 17460, dated 26th ultimo, to the Secretary from the Acting Commissioner, reporting that he has sanctioned the renewal of the lease of the 17,000 square yards of reclaimed ground at Tardeo, leased to Bissasur Bindrawan, for the purpose of stacking hay, for a period of one year from 29th December 1894, for Rs. 4,000, to be paid in four instalments."

No. 8346. *Resolved* : " That the following be *recorded* :—Memorandum No. 17615, dated 30th ultimo, from the Acting Commissioner, forwarding Government Resolution No. 7029, Judicial Department, dated 19th idem, sanctioning estimate of expenditure on account of the Public Land Conveyance Licensing Department for the year 1895-96, as under ":—

No. 7029.

JUDICIAL DEPARTMENT.

BOMBAY CASTLE, 19*th October* 1894.

Letter from the Commissioner of Police, Bombay, No. 6438—5 dated the 20th September 1894, forwarding the following statement, showing the Budget Estimate of expenditure on

account of the Public Land Conveyance Licensing Department for the year 1895-96 :—

Establishment.

1 Head Clerk	(Rs. 65)	Rs. 780	
1 Clerk	(„ 45)	„ 540	
1 Do.	(„ 30)	„ 360	
1 Painter	(„ 25)	„ 300	
1 Branding man	(„ 12)	„ 144	
			Rs. 2,124

Allowance.

1 Deputy Commissioner (Rs. 75)...	Rs. 900	
4 Police Inspectors (Rs. 40 each)...	„ 1,920	
		Rs. 2,820

Supplies and Services.

Tin plates, brass badges, &c.	Rs. 3,000

Contingencies.

Stationery and Printing	Rs. 1,200	
Miscellaneous	„ 500	
		Rs. 1,700
Grand Total...		Rs. 9,644

and requesting sanction to the expenditure as required by Section 62, Clause (*b*), of the City of Bombay Municipal Act III of 1888. Stating that the expenditure will be entered in the Police Budget to be submitted to the Accountant General before 1st October 1894.

RESOLUTION.—The Budget Estimate submitted by the Commissioner of Police, Bombay, is sanctioned.

M. H. W. HAYWARD,
Acting Under-Secretary to Government.

No. 17615 OF 30*th October* 1894.

Copy forwarded to the Municipal Secretary for the information of the Standing Committee.

T. S. WEIR, Acting Commissioner.

Resolved : "That memorandum No. 15147, dated 2nd ultimo, from the Acting Commissioner to the Secretary, forwarding statements of the estimated expenditure on Loan Works to 31st March last, as follows, be *recorded.*"

No. 8347.

No. 2684 OF 1894-95.

BOMBAY, 1*st October* 1894.

TO THE ACTING COMMISSIONER.

SIR,—With reference to the Town Council's Resolution, No. 1444, dated 22nd December 1886, I have the honour to forward herewith statements marked A to N, which embody all the information required in the above resolution.—I have, &c.,

W. PEARSON, Acting Chief Accountant.

No. 15147 OF 1894-95.

Forwarded to the Standing Committee for Information.

T. S. WEIR, Acting Commissioner.

A

Works sanctioned out

Estimated Cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of Repayment of Loan.	Nature of Loan Works.	Estimated Cost of each Work, adding or deducting transfers.
Rs. a. p. (Revised)	Rs. a. p.	Rs. a. p.			Rs. a. p.
4,94,272 0 0				Main Sewers	4,94,272 0 0
3,75,536 0 0				Pipe Sewers	3,75,536 0 0
2,56,585 0 0				Out-fall Sewer	2,56,585 0 0
1,91,741 0 0				New Pumping station, one pair of Engines	1,91,741 0 0
				Establishment	.....
3,81,866 0 0				Contingencies	3,81,866 0 0
17,00,000 0 0	17,00,000 0 0	16,94,000 0 0			17,00,000 0 0
				Kamatipura Works	.....
				Clerk Road Sewer	.....
					17,00,000 0 0
				Less—	
				Transferred to Bhundarwada Loan as per Municipal Commissioner's No. 7617, dated 14th September 1887, adopted by the Town Council and Corporation ...Rs. 31,209	
				Amount of Loan short-raised ..... „ 6,000	37,209 0 0
					16,62,791 0 0
10,00,000 0 0	10,00,000 0 0	10,00,000 0 0	1st January 1918.	Bhundarwada Water Works ...	10,00,000 0 0
				Add—	
				Amount transferred from the 17 lakhs Loan	31,209
					10,31,2[illegible]
				Less—	
				Savings transferred to meet the cost of the Water Works mentioned Statement L (*vide* Corporation's Resolution No. 11358, dated 14th January 1892) ...	14,378 2 9
					10,16,830 13 3
27,00,000 0 0	27,00,000 0 0	26,94,000 0 0		Total.....Rs.	26,79,621 13 3

* Excess sanctioned to be met out of savings in the other Items, *vide* Municipal Commissioner's No. 12333, dated the 27th idem.

of the 27 Lakhs Loan.

Actual Expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
Amount of 10 per cent. transferred to Loan Works Establishment Fund.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
	4,92,691 8 2	4,92,691 8 2		.....	.....	.....	
	2,77,267 13 4	2,77,267 13 4		.....	32,476 12 3	32,476 12 3	
	2,55,766 10 0	2,55,766 10 0		.....	.....	.....	
*	98,289 9 6	98,289 9 6		.....	.....	.....	
	95,742 3 9	95,742 3 9		.....	.....	.....	
1,45,000 0 0	.....	1,45,000 0 0		.....	.....	.....	
.....	1,48,482 5 10	1,48,482 5 10		.....	1,343 6 9	1,343 6 9	
1,45,000 0 0	13,68,240 2 7	15,13,240 2 7		.....	33,820 3 0	33,820 3 0	
.....	76,471 4 6	76,471 4 6		.....	.....	.....	
.....	39,259 5 11	39,259 5 11		.....	.....	.....	
1,45,000 0 0	14,83,970 13 0	16,28,970 13 0		.....	33,820 3 0	33,820 3 0	
1,45,000 0 0	14,83,970 13 0	16,28,970 13 0	33,820 3 0	.....	33,820 3 0	33,820 3 0	.....
29,036 7 6	9,87,794 5 9	10,16,830 13 3	.....	.....	.....	.....	.....
1,74,036 7 6	24,71,765 2 9	26,45,801 10 3	33,820 3 0	.....	33,820 3 0	33,820 3 0	.....

dated 20th February 1884, regarding the disposal of the 17 lakhs Drainage Loan adopted as per the then Town Council's Proceedings,

B

Works sanctioned out of the

Estimated Cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.	Estimated Cost of each Work, adding or deducting transfers.
Rs. a. p.	Rs. a. p.	Rs. a. p.		SURFACE DRAINAGE WORKS.	Rs. a. p.
1,61,362 15 4				Widening Love Grove Sluices	161,362 15 4
1,791 0 8				Culvert, &c., under the B. B. & C. I. Railway, near Bellasis Road...	1,791 0 8
6,848 0 0				Khetwady Survey	6,848 0 0
27,017 0 0	} A			Raising level of Khetwady Roads... ...	27,017 0 0
38,580 0 0				Raising private compounds in Khetwady ...	38,580 0 0
27,544 8 0				Three branch drains in Khetwady and storm-water entrances	27,544 8 0
2,80,753 0 0	} B			Inspecting drain, Tardeo District, and storm-water entrances	*2,56,476 0 0
1,06,091 0 0				Enlarging old open main drain	1,06,091 0 0
3,39,516 8 0				Intercepting drain from Pydhoni to Bellasis Road, and storm-water entrances ...	3,39,516 8 0
3,100 0 0				Making connection between low level sewer and new main sewer	3,100 0 0
32,688 0 0				Laying a new 24" main and removing old 24" Tulsi main and filling up the Haines Road entrances	32,688 0 0
1,98,840 0 0	} C			Constructing storage reservoir on the Flats and raising levels of manholes in sewers and cost of land acquired from Gordon Mills Company in connection with the formation of the storm-water reservoir ...Rs. 1,98,840 0 0	
				Add—Amount transferred as per Resolution No. 13404, dated 9th March 1893 ... „ 6,235 3 11	
					2,05,075 3 11
1,34,163 0 0				Establishment	1,34,163 0 0
53,705 0 0				Rs. a. p. Contingencies ... ... 53,705 0 0 *Less*—Amount transferred to Rs. 20,88,000 Loan Ovoid Sewer from Crawford Market to Mint. Standing Committee's Resolutions, Nos. 5261 & 5264, dated 14th November 1888 Rs. 1,961 13 9 „ 5,890 11 4	
				7,852 9 1	45,852 6 11
14,12,000 0 0				Surface Drainage Work—Carried over...Rs.	13,86,065 10 10

Less—Amount transferred to 15 Lakhs Loan, Queen's Road Sewer—*Vide*

A The Contract for these works was let together to Messrs.
B The Contract for these works was let together to Messrs. Syed
C The Contract for these works was let together to Messrs.

44 Lakhs Sanitary Works Loan.

Actual Expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
Amount of 10 per cent. transferred to Loan Works Establishment Fund.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	1,57,326 7 7	1,57,326 7 7		.....	.....	.....	
.....	1,791 0 8	1,791 0 8		.....	.....	.....	
.....	5,599 10 0	5,599 10 0		.....	.....	.....	
.....	28,355 0 1	28,355 0 1		.....	.....	.....	
.....	25,336 2 1	25,336 2 1		.....	.....	.....	
.....	31,711 15 6	31,711 15 6		.....	.....	.....	
.....	1,69,851 10 4	1,69,851 10 4		.....	.....	.....	
.....	71,318 13 5	71,318 13 5		.....	.....	.....	
.....	3,03,229 3 9	3,03,229 3 9		.....	.....	.....	
.....	2,610 8 10	2,610 8 10		.....	.....	.....	
.....	74,226 14 0	74,226 14 0		.....	.....	.....	
.....	1,92,461 0 5	1,92,461 0 5		.....	.....	.....	
1,21,413 0 0	.....	1,21,413 0 0		.....	.....	.....	
.....	44,654 8 2	44,654 8 2		.....	.....	.....	
1,21,413 0 0	11,08,472 14 10	12,29,885 14 10		.....	.....	.....	

* Rs. 2,80,753 0 0
Town Council's Resolution No. 2368, dated 7th November 1892. „ 24,317 0 0

Cawasji Sorabji Bhedwar & Co., and there is no excess on the totals.
Ebrahim Oosman & Co., and there is no excess on the totals.
Nagoo Sayaji & Co., and there is no excess on the totals.

B

Works sanctioned out of the

Estimated Cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.	Estimated Cost of each Work, adding or deducting transfers.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.		Rs. a. p.
14,12,000 0 0				Surface Drainage Works brought fwd...Rs.	13,86,065 10 10
				Improving the Warli Storm-water Drain, widening the channel south of Love Grove Sluices and other petty works executed out of savings in S. E. Oosman's contract	.....
					13,86,065 10 11
6,00,000 0 0				*Deduct*—Amount paid from 6 Lakhs Loan...	6,00,000 0 0
8,12,000 0 0				*Less*—Savings transferred to the works mentioned in Statement L, as per Corporation's Resolution No. 11358, dated 14th January 1892 ... Rs. a. p. 61,826 3 1	7,86,065 10 10
				Do. Resolution No. 4870, dated 2nd August 1894 ... 2,105 4 6	
					63,931 7 7
					7,22,134 3 3
				DRAINAGE WORKS EXECUTED OUT OF THE 15 LAKHS LOAN, ONE OF THE 3 SANITARY WORKS LOANS AGGREGATING Rs. 44 LAKHS.	
				Queen's Road intercepting sewer, including compensation for land	1,92,000 0 0
				Less—Contribution received from Government... ... Rs. 50,000	
				Cost of Establishment ... „ 12,348	
					62,348 0 0
1,29,652 0 0					1,29,652 0 0
				Add—Amount transferred from Surface Drainage Works as per Town Council's Resolution No. 2368, dated 17th Nov. 1882.	24,317 0 0
					1,53,969 0 0
5,71,165 0 0				House connections without privy fittings ... ... Rs. a. p. 5,71,165 0 0	
				Add—Amount transferred from the provision for ovoid sewer, Argyle Road, as per T.C.'s Resolution No. 5195, dated 20th June 1888 19,046 14 4	
				5,90,211 14 4	
				Less—Amount transferred to meet excess on pumping engines as per T. C.'s Resolution No. 52, dated 13th January 1882 ... 11,600 0 0	
					5,78,611 14 4
7,00,817 0 0				Works sanctioned out of the 15 Lakhs Loan—carried over ... ... Rs.	7,32,580 14 4
8,12,000 0 0				Surface Drainage Works—carried over..Rs.	7,22,134 3 3

* Exclusive of establishment charges to be paid out

continued.

44 Lakhs Sanitary Works Loan.

Actual Expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
Amount of 10 per cent. transferred to Loan Works Establishment Fund.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1,21,413 0 0	11,08,472 14 10	12,29,885 14 10		.....	.....	.....	
.....	92,248 4 5	92,248 4 5		.....	.....	.....	
1,21,413 0 0	12,00,721 3 3	13,22,134 3 3		.....	.....	.....	
.....	6,00,000 0 0	6,00,000 0 0		.....	.....	.....	
1,21,413 0 0	6,00,721 3 3	7,22,134 3 3	.....	.....	.....	.....	
.....	1,53,969 0 0	1,53,969 0 0		.....	.....	.....	
.....	2,31,848 15 0	2,31,848 15 0	3,46,762 15 4	.....	*2,11,749 4 8	2,11,749 4 8	1,35,013 10 8
.....	3,85,817 15 0	3,85,817 15 0	3,46,762 15 4	.....	2,11,749 4 8	2,11,749 4 8	1,35,013 10 8
1,21,413 0 0	6,00,721 3 3	7,22,134 3 3	.....	.....	.....	.....	.....

of the Loan [redacted] ablishment Fund.

B—

Works sanctioned out of the

Estimated Cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.		Estimated Cost of each Work, adding or deducting transfers.
Rs. a. p.	Rs. a. p.	Rs. a. p.				Rs. a. p.
8,12,000 0 0				Surface Drainage—Works brought forward	7,22,134 3 3	
7,00,817 0 0				Works sanctioned out of the 15 Lakhs Loan—brought forward	7,32,580 14 4	
5,570 0 0				Automatic flushers at heads of gullies ...	5,570 0 0	
88,000 0 0				Two more pumping engines...88,000 0 0		
				Transfers sanctioned as per T. Cs'. Resolution No. 52, dated 13th January 1882—		
				For excess cost of the engines Rs.9,600		
				For extras required in connection with the erection of the engines... ... „ 2,000		
				11,600 0 0		
				99,600 0 0		
				Less—Savings transferredto the works mentioned at Statement L, as per Corporation's Rseolution No. 11358, dated 14th January 1892 ... ... 1,161 14 3	98,438 1 9	
60,161 0 0				House connections, Kamatipura 60,161 0 0	.....	
				Less—Savings transferred to the works mentioned in Statement L, as per above Resolution of the Corporation 25,183 8 7	34,977 7 5	
45,652 0 0				Provision for shaft ventilators throughout ... 45,652 0 0		
				Less—Savings transferred to the works mentioned in Statement L, as per Corporation No. 4870, dated 2nd August 1894 ... 704 15 6	44,947 0 6	
89,239 0 0				Establishment 89,239 0 0		
				Less—Savings transferred to the works mentioned in Statement L, as per Resolution of the Corporation, No. 11358, dated 14th January 1892 ... 370 0 0	88,869 0 0	
9,89,439 0 0				Works sanctioned out of the 15 Lakhs Loan—Carried over	10,05,382 8 0	
8,12,000 0 0				Surface Drainage Works—Carried over ...	7,22,134 3 3	

continued.

44 Lakhs Sanitary Works Loan.

Actual Expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
Amount of 10 per cent. transferred to Loan Works Establishment Fund.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1,21,413 0 0	6,00,721 3 3	7,22,134 3 3	.....	.....	.....	.....	.....
.....	3,85,817 15 0	3,85,817 15 0	3,46,762 15 4	.....	2,11,749 4 8	2,11,749 4 8	1,35,013 10 8
.....	.....	.....	5,570 0 0	.....	5,570 0 0	5,570 0 0	.....
.....	98,438 1 9	98,438 1 9	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
.....	34,977 7 5	34,977 7 5	.....	.....	.....	.....	.....
.....	44,947 0 6	44,947 0 6	.....	.....	.....	.....	.....
88,869 0 0	.....	88,869 0 0	.....	.....	.....	.....	.....
88,869 0 0	5,64,180 8 8	6,53,049 8 8	3,52,332 15 4	.....	2,17,319 4 8	2,17,319 4 8	1,35,013 10 8
1,21,413 0 0	6,00,721 3 3	7,22,134 3 3	.....	.....	.....	.....	.....

B—

Works sanctioned out of the

Estimated cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.	Estimated cost of each Works adding or deducting transfers.
Rs. a. p.	Rs. a. p.	Rs. a. p.			Rs. a. p.
8,12,000 0 0				Surface Drainage Works—brought forwd.	7,22,134 3 3
9,89,439 0 0				Works sanctioned out of the 15 Lakhs Loan—brought forward	10,05,382 8 0
4,621 0 0				House-connections Survey Rs. 4,621 0 0	
				Less—Savings transferred to the works mentioned in Statement L, Corporation'sResolution No.11358, dated 14th January 1892... 59 2 9	
5,113 0 0					4,561 13 3
				Survey of pipe sewers ... 5,113 0 0	
				Less—Transferred to the works mentioned in Statement L, as per Corporation'sResolution No. 4870, dated 2nd January 1894... 5,113 0 0	
22,827 0 0				Closing storm-water openings in Frere Road Sewer ... Rs. 22,827 0 0	
				Add—Amount transferred from the Argyle Road Pipe Sewer, as per S. C. Resolution No. 4657, dated 30th October 1889 ... 2,369 0 0	
				25,196 0 0	
				Less—Savings transferred to the works mentioned in Statement L, as per Corporation'sResolution No.4870, dated 2nd August 1894 ... 8,087 6 6	
					17,108 9 6
10,22,000 0 0					10,27,052 14 9
				DRAINAGE WORKS EXECUTED OUT OF Rs. 20,88,000, ONE OF THE THREE SANITARY WORKS LOANS AGGREGATING Rs. 44 LAKHS.	
1,05,955 0 0				Pipe sewer from Clare Road along south portions of Haines Road and DeLisle Road ... Rs.1,05,955 0 0	
				Add—Amount transferred from Ovoid Sewer, Argyle Road 3,783 15 1	
				Do. Fort Drainage. 4,521 1 6	
					1,14,260 0 7
1,05,955 0 0				Works sanctioned out of 20,88,000 Lakhs Loan—Carried over	1,14,260 0 7
18,34,000 6 0				Works sanctioned out of the 44 Lakhs Loan—Carried over	17,49,187 2 0

continued.

44 Lakhs Sanitary Works Loan.

Actual Expenditure up to 1893-94.			Balance on 1st January 1894.	Estimated Expenditure for 1894-95.			Anticipated balance on 1st April 1895
Amount of 10 per cent. transferred to Loan Works Establishment Fund.	Works.	Total,		Establishment.	Works.	Total,	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1,21,413 0 0	6,00,721 3 3	7,22,134 3 3	.....	.....	.....	.....	.....
88,869 0 0	5,64,180 8 8	6,53,049 8 8	3,52,332 15 4	.....	2,17,319 4 8	2,17,319 4 8	1,35,013 10 8
4,561 13 3	.....	4,561 13 3	.....	.....	.....	.....	.....
.....	17,108 9 6	17,108 9 6	.....	.....	.....	.....	.....
93,430 13 3	5,81,289 2 2	6,74,719 15 5	3,52,332 15 4	.....	2,17,319 4 8	2,17,319 4 8	1,35,013 10 8
.....	1,14,260 0 7	1,14,260 0 7	.....	.....	.....	.....	.....
.....	1,14,260 0 7	1,14,260 0 7	.....	.....	.....	.....	.....
2,14,843 13 3	11,82,010 5 5	13,96,854 2 8	3,52,332 15 4	.....	2,17,319 4 8	2,17,319 4 8	1,35,013 10 8

B—

Works sanctioned out of the

Estimated Cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.		Estimated Cost of each Work, adding or deducting transfers.
Rs. a. p.	Rs. a. p.	Rs. a. p.				Rs. a. p.
18,34,000 0 0				Works sanctioned out of the 44 Lakhs Loan —Brought forward Rs.		17,49,187 2 0
1,05,955 0 0				Works sanctioned out of 2,088,000 Loan— Brought forward Rs.		1,14,260 0 7
65,891 0 0				Pipe Sewer from Parel Workshops to Clerke Road Ovoid Sewer	65,891 0 0	
				Less— Amount transferred to the works mentioned in Statement L, as per Corporation's Resolution No.11358, dated 14th January 1892...	97 6 1	65,793 9 11
35,588 0 0				Extension of Clerke Road Ovoid Sewer to Parel Road ... ... Rs.	35,588 0 0	
				Less—Amount transferred to the works mentioned in Statement L, as per above Resolution of the Corporation	18 8 0	35,569 8 0
63,320 0 0				Ovoid Sewer across the Old Race Course ... Rs.	63,320 0 0	
				Less—Amount transferred to meet excess on the chawl for Water Works men at Chinchpokli Rs. 850 3 8		
				Add—Amount transferred to the Works mentioned in Statement L, as per Corporation's Resolution No. 11358, dated 14th January 1892 Rs. 2,722 15 2		
					3,573 2 10	59,746 13 2
2,70,754 0 0				Works sanctioned out of 20,88,000 Loan— Carried over		2,75,369 15 8
18,34,000 0 0				Works sanctioned out of the 44 Lakhs Loan—Carried over Rs.		17,49,187 2 0

continued.

44 Lakhs Sanitary Works Loan.

Actual Expenditure up to 31st March 1894.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
Amount of 10 per cent. transferred to Loan Works Establishment Fund.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
2,14,843 13 3	11,82,010 5 5	13,96,854 2 8	3,52,332 15 4	.....	2,17,319 4 8	2,17,319 4 8	1,35,013 10 8
.....	1,14,260 0 7	1,14,260 0 7	.....	.....	.....	.....	.....
.....	65,793 9 11	65,793 9 11	.....	.....	.....	.....	.....
.....	35,569 8 0	35,569 8 0	.....	.....	.....	.....	.....
.....	59,746 13 2	59,746 13 2	.....	.....	.....	.....	.....
.....	2,75,369 15 8	2,75,369 15 8	.....	.....	.....	.....	.....
2,14,843 13 3	11,82,010 5 5	13,96,854 2 8	3,52,332 15 4	.....	2,17,319 4 8	2,17,319 4 8	1,35,013 10 8

B

Works sanctioned out of the

Estimated Cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.	Estimated Cost of each Work adding or deducting transfers.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.		Rs. a. p.
18,34,000 0 0				Works sanctioned out of the 44 Lakhs Loan—Brought forward ... Rs.	17,49,187 2 0
2,70,754 0 0				Works sanctioned out of 20,88,000 Loan—Brought forward ... ... Rs.	2,75,369 15 8
85,287 0 0				Ovoid Sewer from Crawford Market to Mint down Hornby Road and Bazar Gate thence to the Mint. Rs. a. p. 85,287 0 0	
				Add—Amount transferred from Surface Drainage Works 7,852 9 1	
				93,139 9 1	
				Less—Savings transferred to the Works mentioned as per Corporation Resolution No. 11358, dated 14th Jan. 1892. 3,737 13 4	
					89,401 11 9
				Ovoid Sewer, Argyle Road. Rs. 25,200 0 0	
25,200 0 0				*Less*—Amount transferred to Khetwadi House-connections. Rs. 19,046 14 4	
				Do. to closing storm-water openings in Frere Road sewer ... 2,369 0 0	
				Do. Pipe sewer from Clare Road... 3,783 15 1	
				Do, as per Corporation Resolution No. 11358, dated 14th January 1892 0 2 7	
				25,200 0 0	
36,309 0 0				Establishment	36,309 0 0
4,17,550 0 0					4,01,080 11 5
22,51,550 0 0				Works sanctioned out of the 44 Lakhs Loan—Carried over ...Rs.	21.50.267 13 5

44 Lakhs Sanitary Works Loan.

Actual Expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
Amount of 10 per cent. transferred to Loan Works Establishment Fund.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
2,14,843 13 3	11,82,010 5 5	13,96,854 2 8	3,52 332 15 4	.....	2,17,319 4 8	2,17,319 4 8	1,35,013 10 8
.....	2,75,369 15 8	2,75,369 15 8	.....	.....	.....	.....	.....
.....	89,401 11 9	89,401 11 9	.....	.....	.....	.....	.....
36,309 0 0	.....	36,309 0 0	.....	.....	.....	.....	.....
36,309 0 0	3,64,771 11 5	4,01,080 11 5	.....	.....	.....	.....	.....
2,51,152 13 3	15,46,782 0 10	17,97,934 14 1	3,52,332 15 4	.....	2,17,319 4 8	2,17,319 4 8	1,35,013 10 8

B—

Works sanctioned out of the

Estimated Cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.		Estimated Cost of each Work, adding or deducting transfers.
Rs. a. p.	Rs. a. p.	Rs. a. p.				Rs. a. p.
22,51,550 0 0				Works sanctioned out of the 44 Lakhs Loan—Brought forward ... Rs.	21,50,267 13 5	
				WATER WORKS.		
4,00,000 0 0				Malabar Hill Reservoir		4,00,000 0 0
96,336 0 0				Tulsi gathering ground, purchase of ... ... Rs. 96,336 0 0		
				Less—Savings transferred to the Works mentioned in Statement L, as per Corporation Resolution No. 11358, dated 14th January 1892... 1,836 0 0		
						94,500 0 0
7,14,000 0 0				Improving the water-supply of the outlying districts Rs. 7,14,000 0 0		
				Less—Savings transferred to and low filter beds ...Rs. 1,083 2 8		
				Less—Saving transferred to the Works mentioned in Statement L, as per Corporation Resolution No 11358, dated 14th January 1892 ... 486 12 8		
				1,569 15 4		
						7,12,430 0 8
1,01,000 0 0				Construction of filter beds at Vehar ... ...Rs. 1,01,000 0 0		
				Add—Savings transferred from the allotment for improving the water-supply of the outlying districts. Rs. 1,083 2 8		
				Do. do. raising the Tulsi Dams ...Rs. 7,793 10 4		
				Do. do. Check meters ...Rs. 2,911 1 6		
				Do. do. Bori Bunder Stables ...Rs. 429 1 5		
				12,216 15 11		
						1,13,216 15 11
13,11,336 0 0				Water Works—Carried over		13,20,147 0 7
22,51,550 0 0				Works sanctioned out of the 44 Lakhs Loan—Carried over		21,50,267 13 5

continued.

44 Lakhs Sanitary Works Loan.

Actual expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
Amount of 10 per cent. transferred to Loan Works Establishment Fund.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
2,51,152 13 3	15,46,782 0 10	17,97,934 14 1	3,52,332 15 4	.....	2,17,319 4 8	2,17,319 4 8	1,35,013 10 8
41,566 0 0	3,58,434 0 0	4,00,000 0 0	.....	.....	.....	.....	.....
.....	94,500 0 0	94,500 0 0	.....	.....	.....	.....	.....
30,365 0 0	6,82,065 0 8	7,12,430 0 8	.....	.....	.....	.....	.....
8,783 0 0	1,04,433 15 11	1,13,216 15 11	.....	.....	.....	.....	.....
80,714 0 0	12,39,433 0 7	13,20,147 0 7	.....	.....	.....	.....	.....
2,51,152 13 3	15,46,782 0 10	17,97,934 14 1	3,52,332 15 4	.....	2,17,319 4 8	2,17,319 4 8	1,35,013 10 8

B—

Works sanctioned out of the

Estimated Cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.			Estimated Cost of each work, adding or deducting transfers.
Rs. a. p.	Rs. a. p.	Rs. a. p.					Rs. a. p.
22,51,550 0 0				Works sanctioned out of the 44 lakhs Loan Brought Forward.			21,50,267 13 5
13,11,336 0 0				Water Works Brought forward			13,20,147 0 7
1,38,000 0 0				Raising of the Tulsi Dams including Pitching of Dams	1,38,000 0 0		
				Less—Savings transferred to Vehar filter-beds ...Rs. 7,793 10 4			
				Do. to works mentioned in Statement L as per Corporation Resolution No. 11,358 dated 14th Jan. 1892 2,251 6 3			
					10,045 0 7		1,27,954 15 5
1,15,716 0 0				Providing additional catch water channels at Vehar and Tulsi... ... Rs.	1,15,716 0 0		
				Less—Savings transferred to meet excess on the Bhandarwara works ... Rs.	10,285 1 3		
							1,05,430 14 9
1,50,000 0 0				Check meters for prevention of waste of water ...	1,50,000 0 0		
				Less—Savings transferred to Vehar filter beds ... 2,911 1 6			
				Do. to meet excess on the Bhandarwada Works..... 13,399 10 6			
					16,310 12 0		
					133,689 4 0		
				Less—Savings transferred to the Works mentioned in Statement L as per Corporation Resolution No. 11358, dated 14th January 1892 ...	34 5 4		1,33,654 14 8
17,15,052 0 0				Water Works carried over Rs... ...			16,87,187 13 5
22,51,550 0 0				Works sanctioned out of the 44 lakhs Loan ... ... Carried over Rs...			21,50,267 13 5

continued.

44 Lakhs Sanitary Works Loan.

Actual Expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
Amount of 10 per cent. transferred to Loan Works Establishment Fund.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
2,51,152 13 3	15,46,782 0 10	17,97,934 14 1	3,52,332 15 4	.....	2,17,319 4 8	2,17,319 4 8	1,35,013 10 8
80,714 0 0	12,39,433 0 7	13,20,147 0 7	.....	.....	.....	.....	.....
10,434 0 0	*1,17,520 15 5	1,27,954 15 5	.....	.....	.....	.....	.....
10,062 0 0	†95,368 14 9	1,05,430 14 9	.....	.....	.....	.....	.....
6,522 0 0	1,27,132 14 8	1,33,654 14 8	.....	.....	.....	.....	.....
732 0 0	15,79,455 13 5	16,87,187 13 5	.....	.....	.....	.....	.....
2,51,152 13 3	15,46,782 0 10	17,97,934 14 1	3,59,332 15 4	.....	2,17,319 4 8	2,17,319 4 8	1,35,013 10 8

* Includes Rs. 4,263-5-10 on account of survey expenses.
† Includes Rs. 3,574-14-3 on account of survey expenses.

B—

Works sanctioned out of the

Estimated Cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.	Estimated Cost of each Work, adding or deducting transfers.
Rs. a. p.	Rs. a. p.	Rs. a. p.			Rs. a. p.
22,51,550 0 0				Works sanctioned out of the 44 Lakhs Loan —Brought forward ...	21,50,267 13 5
17,15,052 0 0				Water Works—Brought forward...	16,87,187 13 5
22,900 0 0				New Hydrants ... ... Rs. 22,900 0 0	
				Less—Savings transferred to the Works mentioned in Statement L, as per Corporation Resolution No. 11358, dated 14th January 1892... 32 8 11	22,867 7 1
30,577 0 0				Construction of a double-storied chawl for the Water Works staff and quarters for the Superintendent ... 30,577 0 0	
				Add-Savings transferred from the allotment for Ripon Road Ovoid Sewer 850 3 8	
				Do. do. for Ripon Road ... 425 0 0	
				1,275 3 8	
				Less-Savings transferred to the Works mentioned in Statement L, as per Corporation Resolution No. 11358, dated 14th January 1892 ... 11 0 5	
				1,264 3 3	31,841 3 3
1,12,892 0 0				Enlargement of different mains, &c. ... ... Rs. 1,12,892 0 0	
				Less—Transferred to other Works mentioned in Statement L, as per Corporation Resolution No. 11358, dated 14th January 1892... 25 7 6	1,12,866 8 6
2,500 0 0				Provision of a turbine at the Malabar Hill Reservoir	2,500 0 0
15,000 0 0				New water main from the junction of Nesbit Road	15,000 0 0
				Excess on the Bhandarwada Water works—	
				Transferred from the provision for new catch-water channels at Vehar and Tulsi 10,285 1 3	
				Do. check meters for prevention of waste of water 13,399 10 6	23,684 11 9
18,98,921 0 0					18,95,947 12 0
41,50,471 0 0				Works sanctioned out of the 44 Lakhs Loan—Carried over... Rs.	40,46,215 9 5

continued.

44 Lakhs Sanitary Works Loan.

Actual Expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
Amount of 10 per cent. transferred to Loan Works Establishment Fund.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
2,51,152 13 3	15,46,782 0 10	17,97,934 14 1	3,52,332 15 4	.....	2,17,319 4 8	2,17,319 4 8	1,35,013 10 8
1,07,732 0 0	15,79,455 13 5	16,87,187 13 5	.....	.....	.....	.....	.....
1,991 0 0	20,876 7 1	22,867 7 1	.....	.....	.....	.....	.....
2,659 0 0	29,182 3 3	31,841 3 3	.....	.....	.....	.....	.....
9,736 0 0	1,03,130 8 6	1,12,866 8 6	.....	.....	.....	.....	.....
218 0 0	2,282 0 0	2,500 0 0	.....	.....	.....	.....	.....
.....	15,000 0 0	15,000 0 0	.....	.....	.....	.....	.....
.....	23,684 11 9	23,684 11 9	.....	.....	.....	.....	.....
1,22,336 0 0	17,73,611 12 0	18,95,947 12 0	.....	.....	.....	.....	.....
3,73,488 13 3	33,20,393 12 10	36,93,882 10 1	3,52,332 15 4	.....	2,17,319 4 8	2,17,319 4 8	1,35,013 10 8

B—

Works sanctioned out of the

Estimated Cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.			Estimated Cost of each Work, adding or deducting transfers.
Rs. a. p.	Rs. a. p.	Rs. a. p.					Rs. a. p.
41,50,471 0 0				Works sanctioned out of the 44 Lakhs Loan—Brought forward...			40,46,215 9 5
				ROADS.			
1,43,292 0 0				New road from Bellasis Road across Old Race Course .....Rs.	1,43,292 0 0		
				Less—Savings transferred to Water Works Chawl ...	425 0 0		
							1,42,867 0 0
				OTHER SANITARY WORKS.			
50,000 0 0				Enlargement of Dhobi Lines at Mahaluxmi ... Rs.	50,000 0 0		
				Less—Savings transferred to the Works mentioned in Statement L, as per Corporation Resolution No. 11358, dated 14th January 1892 and No. 13318 dated 25th February 1892 ...	17,152 3 9		
							32,847 12 3
6,237 0 0				Chawl for Gowlis working at the Agripada Milch Cattle Stables			6,237 0 0
50,000 0 0				Health Department Stables at Bori Bunder ... Rs.	50,000 0 0		
				Less— Savings transferr e d to the Works mentioned in Statement L, to the grant for the construction of Vehar filter-beds ...Rs.	429 1 5		
				Do. to the Works mentioned in Statement L, as per Corporation Resolution No. 13318 dated 25th February 1892 ...	1,545 1 4	1,974 2 9	
							48,025 13 3
1,06,237 0 0							87,110 9 6
44,00,000 0 0	44,00,000 0 0	44,00,000 0 0	1st July 1895.			TOTAL ...Rs.	42,76,198 2 11

continued.

44 Lakhs Sanitary Works Loan.

Actual Expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
Amount of 10 per cent. transferred to Loan Works Establishment Fund.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
3,73,488 13 3	33,20,393 12 10	36,93,882 10 1	3,52,332 15 4	.....	2,17,319 4 8	2,17,319 4 8	1,35,013 10 8
12,461 0 0	1,29,039 1 2	1,41,500 1 2	1,366 14 10	.....	.....	.....	1,366 14 10
4,348 0 0	28,499 12 3	32,847 12 3	.....	.....	.....	.....	.....
107 2 6	6,129 13 6	6,237 0 0	.....	.....	.....	.....	.....
4,348 0 0	43,677 13 3	48,025 13 3	.....	.....	.....	.....	.....
8,803 2 6	78,307 7 0	87,110 9 6	.....	.....	.....	.....	.....
3,94,752 15 9	35,27,740 5 0	39,22,493 4 9	3,53,699 14 2	.....	2,17,319 4 8	2,17,319 4 8	1,36,380 9 6

C.—*Works sanctioned out of the*

Estimated cost of each work.	Amount of Loan sanctioned.	Amount of Loan raised.	Nature of Loan Works.	
Rs. a. p.	Rs. a. p.	Rs. a. p.		
4,53,329 0 0			Drainage of the Fort.....Rs.	4,53,329 0 0
			Less—Savings transferred to the allotment for Pipe Sewer from Clare Road along south portions of Haines Road, Corporation's Resolution No. 1250, dated 5th June 1890 ...Rs. 4,521 1 6	
			Do. to the works mentioned in Statement L, as per Corporation's Resolution No. 4870, dated 2nd August 1894 .....Rs. 40,535 0 9	
				45,056 2 3
39,724 0 0			Additional Works at Love Grove Pumping Station .....Rs.	39,724 0 0
			Less—Amount of Loan short raised .....Rs. 3,292 0 9	
			Savings transferred to the works mentioned in Statement L, *vide* Corporation's Resolution No. 13318, dated 25th February 1892.....Rs. 1,786 5 9	
				5,078 6 6
6,290 0 0			Constructing pipe drains in certain roads in Khetwadi .....Rs.	6,290 0 0
			Less—Amount of loan short raised ..... Rs.	1,007 10 0
9,046 0 0			Constructing side drain in Wari Bunder Road..... Rs.	9,046 0 0
			Less—Amount of loan short raised ..... Rs.	4,111 15 11
13,544 0 0			Extra grant on account of Queen's Road Intercepting Sewer.....Rs.	13,544 0 0
			Less—Amount of Loan short raised Rs.	3,910 5 4
1,58,750 0 0			Malabar Hill Reservoir roofing, extra grant .....Rs.	1,58,750 0 0
			Less—Savings transferred to the works mentioned in Statement L, *vide* Corporation's Resolution No. 11358, dated 14th January 1892 Rs.	44,710 13 6
21,050 0 0			Increasing and improving the distribution of water supply and providing higher districts, Tulsi District, with filtered water Rs.	21,050 0 0
			Less—Savings transferred to the works mentioned in Statement L, *vide* Corporation's Resolution No. 11358, dated 14th January 1892 Rs.	838 7 8
10,589 0 0			Extra grant for the adjustment of expenditure on the Bhandarwada Reservoir Works, new outlet tower at Vehar, less Savings on the 17 lakhs Loan Works and various Water Works included in the Sanitary Works Loan of 44 lakhs .....Rs.	10,589 0 0
			Less—Savings transferred to the works mentioned in Statement L, *vide* Corporation's Resolution No. 11358, dated 14th January 1892. Rs.	2,598 5 6
7,12,322 0 0	7,00,000 0 0	1st Feb. 1928		

7 lakhs Sanitary Works Loan.

Estimated cost of each Work adding or deducting transfers.	Actual expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated expenditure for 1894-95.			Balance on 1st April 1895.
	Amount of 10 per cent. transferred to Loan Works Establishment Fund.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
4,08,272 13 9	39,419 0 0	3,58,867 15 11	3,98,286 15 11	9,985 13 10 *	.....	9,985 13 10	9,985 13 10	.....
34,645 9 6	.....	34,645 9 6	34,645 9 6	.....	.....	.....	.....	.....
5,282 6 0	.....	5,282 6 0	5,282 6 0	.....	.....	.....	.....	.....
4,934 0 1	.....	4,934 0 1	4,934 0 1	.....	.....	.....	.....	.....
9,633 10 8	.....	9,633 10 8	9,633 10 8	.....	.....	.....	.....	.....
1,14,039 2 6	.....	1,14,039 2 6	1,14,039 2 6	.....	.....	.....	.....	.....
20,211 8 4	.....	20,211 8 4	20,211 8 4	.....	.....	.....	.....	.....
7,990 10 6	.....	7,990 10 6	7,990 10 6	.....	.....	.....	.....	.....
6,05,009 13 4	39,419 0 0	5,55,604 15 6	5,95,023 15 6	9,985 13 10	.....	9,985 13 10	9,985 13 10	.....

* Deducting a transfer of Rs. 40,535-0-9 sanctioned on 2nd August 1894.

D.—*Works sanctioned out of the Tansa*

Estimated Cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.
Rs. a. p.	Rs. a. p.	Rs. a. p.		
1,47,00,000 0 0	1,47,00,000 0 0	1,47,00,000 0 0	Between 1st Jan. 1928 and 1st Jan. 1953.	Tansa Water Works.....

E.—*Works sanctioned out of the 12 lakhs*

Estimated Cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.	
Rs. a. p.	Rs. a. p.	Rs. a. p.			
11,15,000 0 0				Queen's Road House sullage Water-connections..... Rs.	11,15,000 0 0
				Less—Savings transferred to meet the cost of the work mentioned in Statement L, as per Corporation's Resolution No. 13318, dated 25th February 1892...Rs. 71 0 0	
				Do. do. to meet the cost of the works mentioned in Statement L, as per Corporation's Resolution No. 4870, dated 2nd August 1894.....Rs. 52,147 4 9	
				Do. do. to meet excess on the Colaba Sewerage Works, as per Corporation's Resolution No. 5339, of 9-8-94...Rs. 50,000 0 0	
					1,02,218 4 9
85,000 0 0				Water mains in Frere Road.....Rs.	85,000 0 0
				Less—Savings transferred to the works mentioned in Statement L, as per Corporation's Resolution No. 11358, dated 14th January 1892.Rs.	4,968 11 0
12,00,000 0 0	12,00,000 0 0	12,00,000 0 0	1st Jan. 1928.		

* Exclusive of Rs. 2,40,000 paid out of the

† Deducting transfers of Rs. 1,02,147-4-9

Loan of Rs. One Crore and 47 Lakhs.

Estimated Cost of each Work, adding or deducting transfers.	Actual Expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
	Establishment.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1,47,00,000 0 0	5,44,764 3 6	1,40,84,557 9 3	1,46,29,321 12 9 *	70,678 3 3	416 15 2	70,261 4 1	70,678 3 3	.....

Loan for Drainage and other Works.

Estimated Cost of each Work adding or deducting transfers.	Actual Expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
	Establishment.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
10,12,781 11 3	46,022 14 5	8,45,034 6 3	8,91,057 4 8	† 1,21,724 6 7	.....	15,000 0 0	15,000 0 0	1,06,724 6
80,031 5 0	918 8 9	79,112 12 3	80,031 5 0	.....	.....	.....	.....	.....
10,92,813 0 3	46,941 7 2	9,24,147 2 6	9,71,088 9 8	1,21,724 6 7	.....	15,000 0 0	15,000 0 0	1,06,724 6 7

premia received on the Loan.

sanctioned on 2nd and 9th August 1894.

F.—*Work sanctioned out of the Miscellaneous*

Estimated Cost of each Work.	Amount of Loan sanctioned	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.	
Rs. a. p.	Rs. a. p.	Rs. a. p.			
50,300 0 0				New Market at Colaba, including cost of site.....	
				ERSKINE ROAD MARKET EXTENSION. Rs.	4,04,122 0 0
4,04,122 0 0				*Less*—Amount of Loan short-raised. „	4,364 0 0
49,942 0 0				Arthur-Crawford Market extension	
5,04,364 0 0 or say	5,00,000 0 0	5,00,000 0 0			
33,749 0 0				Extension of Parel storm-water drain in Shepherd Road .....Rs.	33,742 0
23,436 0 0				Storm-water drain from Bellasis Road to ⅔ the length of Ripon Road .....Rs.	23,436 0
				Rs.	57,178 0 0
				Less—Savings transferred to Surface Drainage Works as per Corporation's Resolution No. 13404 of 9th March 1892 ...Rs. 6,235 3 11	
				Do. to the Works mentioned in Statement L, as per Corporation's Resolutions Nos. 13318 and 188 of 25th February 1892 and 6th April 1892 .....Rs. 9,836 5 4	16,071 9 3
29,822 0 0				9" Pipe sewer along Bellasis Road, Forae Road and Gilder Street.....Rs.	29,822 0 0
				Less—Savings transferred to meet the cost of the Works mentioned in Statement L, as per Corporation's Reso. No. 188 of 6th April 1892. Rs.	12,484 6 0
35,000 0 0				Concrete trench waste weir, Vehar Lake .....Rs.	35,000 0 0
				Less-Savings transferred to the Works mentioned in Statement L, as per Corporation's Resolution No. 11358 of 14th January 1892..... Rs.	4,891 8 11
17,325 0 0				Mains in 14 streets west of Frere Road .....Rs.	17,325 0 0
51,475 0 0				Do. in various streets.....Rs.	51,475 0 0
				Rs.	68,800 0 0
				Less—Savings transferred to other Works mentioned in Statement L, *vide* C. R. No. 11358 of 14th January 1892.....Rs.	9,524 14 4
13,200 0 0				Arthur Road connection works...Rs.	13,200 0 0
				Less—Savings transferred to Works mentioned in Statement L, as per above Resolution..... Rs.	3,657 5 7
18,000 0 0				Deacon's Meters..... Rs.	18,000 0 0
				Less—Savings transferred to meet the cost of the Works mentioned in Statement L, as per above Resolution ..... Rs.	1,212 0 0
23,000 0 0				Cross Road at Mahalaxmi Station Rs.	23,000 0 0
				Less—Amount of Loan short-raised ..... Rs.	375 0 0
2,03,875 0 0				Road through Nowroji Hill	
5,09,882 0 0	5,08,875 0 0	5,08,500 0 0			
10,13,246 0 0	10,08,875 0 0	10,08,500 0 0	1st Oct. 1928.	Total Rupees.....	

* Exclusive of Rs. 21,940 on account of a portion of the cost of the site paid out of balance of the cost of the site as per Cor

‡ Exclusive of the excess of Rs. 31,906-11-11 paid out

Works Loan of Rs. 10,08,500.

Estimated Cost of each Work, adding or deducting transfers.	Actual Expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
	Estimated.	Works.	Total.		Estimated.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
50,300 0 0	.....	349 6 8	349 6 8*	49,950 9 4	2,280 0 0	47,670 9 4	49,950 9 4	.....
3,99,758 0 0	.....	3,99,758 0 0	3,99,758 0 0‡	.....	.....	.....	.....	.....
49,942 0 0	2,806 5 0	31,217 11 2	34,024 0 2	15,917 15 10	.....	15,917 15 10	15,917 15 10	.....
5,00,000 0 0	2,806 5 0	4,31,325 1 10	4,34,131 6 10	65,868 9 2	2,280 0 0	6 9 2	65,868 9 2	.....
41,106 6 9	1,839 15 7	39,266 7 2	41,106 6 9	.....	.....	.....	.....	.....
17,337 10 0	1,587 12 11	15,702 11 2	17,290 8 1	47 1 11	.....	.....	.....	47 1 11
30,608 7 1	1,324 6 2	29,284 0 11	30,608 7 1	.....	.....	.....	.....	.....
59,275 1 8	1,321 1 7	57,954 0 1	59,275 1 8	.....	.....	.....	.....	.....
9,542 10 5	.....	9,542 10 5	9,542 10 5	.....	.....	.....	.....	.....
16,788 0 0	.....	16,788 0 0	16,788 0 0	.....	.....	.....	.....	.....
22,625 0 0	.....	19,594 4 8	19,594 4 8	3,030 11 4	.....	.....	.....	3,030 11 4
2,63,875 0 0	.....	552 12 0	552 12 0	2,63,322 4 0	7,680 0 0	2,55,642 4 0	2,63,322 4 0	.....
4,61,158 3 11	6,073 4 3	1,88,684 14 5	1,94,758 2 8	2,66,40 1 0	7,680 0 0	2,55,642 4 0	2,63,322 4 0	3,077 13 3
9,61,158 3 11	8,879 9 3	6,20,010 0 3	6,28,889 9 6	3,32,268 10 5	9,960 0 0	3,19,230 13 2	3,29,190 13 2	3,077 13 3

the Premia received on the Loan and of Rs. 28,060 advanced from Surplus Balance to meet the
poration's Resolution No. 1200, dated 19th May 1892.
of the Premia received on the Loan.

G.—*Works sanctioned out of the Agripada House*

Estimated Cost of each Work.	Amount of Loan sanctioned	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.
Rs. a. p.	Rs. a. p.	Rs. a. p.		
2,48,642 0 0	2,48,000 0 0	2,48,000 0 0	1st July 1929	Agripada House Sullage Water-connection.....

H.—*Works sanctioned out of the 35 Lakhs*

Estimated Cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.
Rs. a. p.	Rs. a. p.	Rs. a. p.		
7,00,000 0 0				Pawai Water Works.....
1,00,000 0 0				Additional Water Mains .....
1,00,000 0 0				Improvement Works at the Malabar Hill Reservoir.
20,000 0 0				Extension of Catch-water Channels at Tulsi .....Rs. 20,000 0 0
				Add—Additional grant sanctioned as per Corporation's Resolution No. 8072, dated 26th October 1891 Rs. 836 9 1
15,00,000 0 0				Roads and Streets in Agripada and elsewhere paid out of Loan.....
68,148 0 0				Difference betwen the amount provided in the Loan of Rs. 10,08,500 for road through Nowroji Hill from Elphinstone Bridge to Dongree Street, and the revised estimate sanctioned for the road in Corporation's Resolution No. 5293 of 19th November 1893 .....
14,000 0 0				Sewer flushing arrangements.....
2,00,000 0 0				Purchase of land on the Flats for the disposal of Town sweepings .....
1,50,000 0 0				Health Department bullock stables and quarters for scavengers .....
86,000 0 0				Chawl for Halalkhores in Cursetji Suklajee Street.....Rs. 86,000 0 0
				Add—Additional grant sanctioned as per Corporation's Resolution No. 9065 of 16th November 1891.Rs. 11,847 0 0
22,700 0 0				Laborers' quarters in connection with A.C. Markets.
23,676 0 0				Purchase of land at Arthur Road .....
4,50,000 0 0				Bhuleshwar Market extension .....
50,000 0 0				New Market at Foras Road.....
15,476 0 0				Unappropriated Balance .....
35,00,000 0 0	35,00,000 0 0	35,00,000 0 0	1st July 1930.	

* Exclusive of advances, amounting to Rs. 6,93,119-10-2, made for purchase of frontages, &c., in connection

Sullage Water Connections Loan of Rs. 2,48,000.

Estimated Cost of each Work, adding or deducting transfers.	Actual Expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
	Establishment.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
2,48,000 0 0	15,050 8 4	2,06,989 10 10	2,22,040 3 2	25,959 12 10	.....	9,326 2 9	9,326 2 9	16,633 10 1

Various Sanitary Works Loan.

Estimated Cost of each Work, adding or deducting transfers.	Actual Expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
	Establishment.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
7,00,000 0 0	15,952 3 7	4,75,763 3 10	4,91,715 7 5	2,08,284 8 7	.....	2,08,284 8 7	2,08,284 8 7	.....
1,00,000 0 0	584 5 8	97,801 11 2	98,386 0 10	1,613 15 2	.....	.....	.....	1,613 15 2
1,00,000 0 0	1,916 3 10	90,956 5 4	92,872 9 2	7,127 6 10	.....	7,127 6 10	7,127 6 10	.....
20,836 9 1	455 3 2	20,381 5 11	20,836 9 1	.....	.....	.....	.....	.....
15,00,000 0 0	12,277 11 6	14,87,722 4 6	15,00,000 0 0*	.....	.....	.....	.....	.....
68,148 0 0	.....	.....	.....	68,148 0 0	.....	68,148 0 0	68,148 0 0	.....
14,000 0 0	.....	11,423 10 3	11,423 10 3	2,576 5 9	.....	2,576 5 9	2,576 5 9	.....
2,00,000 0 0	.....	1,98,913 8 8	1,98,913 8 8	1,086 7 4	.....	.....	.....	1,086 7 4
1,50,000 0 0	.....	44,437 1 5	44,437 1 5	1,05,562 14 7	6,000 0 0	99,562 14 7	1,05,562 14 7	.....
97,847 0 0	1,480 10 5	86,979 13 9	88,460 8 2	9,386 7 10	.....	.....	.....	9,386 7 10
22,700 0 0	.....	.....	.....	22,700 0 0	.....	22,700 0 0	22,700 0 0	.....
23,676 0 0	.....	.....	.....	23,676 0 7	.....	23,676 0 0	23,676 0 0	.....
4,50,000 0 0	.....	2,61,183 15 5	2,61,183 15 5	1,88,816 0 0	2,280 0 0	1,86,536 0 7	1,88,816 0 7	.....
50,000 0 0	1,740 12 11	38,139 15 8	39,880 12 7	10,119 3 5	.....	10,119 3 5	10,119 3 5	.....
2,792 6 11	.....	.....	.....	2,792 6 11	.....	.....	.....	2,792 6 11
35,00,000 0 0	34,407 3 1	28,13,702 15 11	28,48,110 3 0	6,51,889 13 0	8,280 0 0	6,28,730 7 9	6,37,010 7 9	14,879 5 3

with the roads and streets in Agripada and elsewhere, as per Corporation's Resolution No. 10531, dated 11th January 1893—*vide* Statement M.

I.—*Works sanctioned out of*

Estimated Cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of repayment of the Loan	Nature of Loan Works.
Rs. a. p.	Rs. a. p.	Rs. a. p.		
8,00,000 0 0	8,00,000 0 0	8,00,000 0 0	1st July 1931.	Municipal Office Building .....

* Excluding Rs. 7,34,326-8-3 expended from the invested fund, *viz.*,

J.—*Works sanctioned out of the Loan of*

Estimated Cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.
Rs. a. p.	Rs. a. p.	Rs. a. p.		
4,50,000 0 0	4,50,000 0 0	4,50,000 0 0	1st Jan. 1923.	Land and Buildings for Fire Brigade .....

K.—*Works sanctioned out of*

Estimated Cost of each Work.	Amount of Loan sanctioned.	Amount of Loan raised.	Date of repayment of the Loan.	Nature of Loan Works.
Rs. a. p.	Rs. a. p.	Rs. a. p.		
7,09,608 0 0				Colaba sewerage .....Rs. 7,09,608 0 0 *Add*—Amount transferred from the Queen's Road Pipe Sewers and House Connections as per Corporation's Resolution No. 5339, dated 9th September 1894 .....Rs. 50,000 0 0
4,60,948 0 0				Love Grove Engines and Pumps .....
3,49,959 0 0				Sewerage of Umarkhadi with Kavasji Patel Tank Road Sewer .....
1,28,288 0 0				Storm-water drains in Morland and Souter Roads and Club and Gilder Streets .....
51,916 0 0				Do. Connaught and Sussex Roads.....
36,871 0 0				Miscellaneous extensions and improvements of drains .....
24,519 0 0				Storm water drains, &c., in different places.....
1,15,500 0 0				Works at the Bhandarwada Reservoir .....
75,000 0 0				Improvements at the Malabar Hill Reservoir.....
30,000 0 0				Extension of water mains .....
25,000 0 0				Road from Vehar to Tulsi .....
1,32,652 0 0				Wari Bunder Bridge .....
22,000 0 0				Falkland Road do. .....
1,50,000 0 0				Purchase of land on the Flats .....
12,739 0 0				Unappropriated balance.....
23,25,000 0 0	23,25,000 0 0	13,00,000 0 0	1st July 1930.	

* Including Rs. 40,000 to be adjusted against

† As the full amount of the Loan has not been raised, the actual balance available the amount estimated to be spent up to 1894-95 will have to be met by

the 8 Lakhs Municipal Building Loan.

Estimated Cost of each Work, adding or deducting transfers.	Actual Expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
	Establishment.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.
8,00,000 0 0	9,701 0 0	6,57,924 11 0	6,67,625 11 0*	1,32,374 5 0	.....	70,497 7 11†	70,497 7 11	61,876 13 1

Rs. 22,099-1-0 on Establishment, and Rs. 7,12,227-7-3 on Works.

Rs. 4½ Lakhs for Fire Brigade Quarters and Stations.

Estimated Cost of each Work, adding or deducting transfers.	Actual Expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
	Establishment.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
4,50,000 0 0	9,199 12 2	1,69,085 4 3	1,78,285 0 5	2,71,714 15 7	12,304 3*10	2,59,280 3 11	2,71,584 7 9	130 7 10

the 23¼ Lakhs Loan for Drainage and other works.

Estimated Cost of each Work, adding or deducting transfers.	Actual Expenditure up to 1893-94.			Balance on 1st April 1894.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
	Establishment.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
7,59,608 0 0	31,027 14 4	1,43,609 14 9	1,74,637 13 1	5,84,970 2 11	23,803 0 0	5,61,167 2 11	5,84,970 2 11	.....
4,60,948 0 0	3,730 7 10	4,44,745 6 2	*4,48,475 14 0	52,472 2 0	.....	52,472 2 0	52,472 2 0	.....
3,49,959 0 0	.....	2,985 8 11	2,985 8 11	3,46,973 7 1	11,741 0 0	2,47,743 7 1	2,59,484 7 1	87,489 0 0
1,28,288 0 0	.....	.....	.....	1,28,288 0 0	2,999 0 0	1,25,289 0 0	1,28,288 0 0	.....
51,916 0 0	878 11 11	24,213 6 6	25,092 2 5	26,823 13 7	3,636 0 0	13,117 0 0	16,753 0 0	10,070 13 7
36,871 0 0	.....	.....	.....	36,871 0 0	1,676 0 0	28,324 0 0	30,000 0 0	6,871 0 0
24,519 0 0	609 1 8	11,871 10 6	12,480 12 2	12,038 3 10	.....	12,038 3 10	12,038 3 10	.....
1,15,500 0 0	.....	.....	.....	1,15,500 0 0	4,116 0 0	48,504 13 0	52,620 13 0	62,879 3 0
75,000 0 0	.....	.....	.....	75,000 0 0	.....	50,000 0 0	50,000 0 0	25,000 0 0
30,000 0 0	.....	481 1 6	481 1 6	29,518 14 6	210 0 0	29,308 14 6	29,518 14 6	.....
25,000 0 0	.....	.....	.....	25,000 0 0	1,080 0 0	23,920 0 0	25,000 0 0	.....
1,32,652 0 0	.....	.....	.....	1,32,652 0 0	4,860 0 0	1,27,792 0 0	1,32,652 0 0	.....
22,000 0 0	.....	8,190 3 0	8,190 3 0	13,809 13 0	.....	13,809 13 0	13,809 13 0	.....
1,50,000 0 0	.....	5,743 14 1	5,743 14 1	1,44,256 1 11	.....	1,44,256 1 11	1,44,256 1 11	.....
12,739 0 0	.....	.....	.....	12,739 0 0	.....	.....	.....	12,739 0 0
23,75,000 0 0	36,246 3 9	6,41,841 1 5	6,78,087 5 2	†17,36,912 10 10	54,121 0 0	77,742 10 3	15,31,863 10 3	2,05,049 0 7

the sale-proceeds of the old engines and pumps as per Corporations Resolution No. 3317, dated 4th July 1892.
on 1st April 1894 out of the 13 Lakhs already raised amounted to Rs. 6,21,912-10-10. The difference between this balance and advances from Surplus Balances as sanctioned in Corporation's Resolution No. 4873, dated 2nd August 1894.

L.—*Works sanctioned out of*

From what Loan transferred.	Amount.	Nature of Works.
	Rs. a. p.	WATER WORKS.
27 Lakhs Loan, Bhundarwada Water Works allotment	14,378 2 9	Construction of Residence of the Chief Inspector of Water Works
44 Lakhs Sanitary Works Loan	4,677 9 1	Covering the storage basin of the Bhundarwada Reservoir and constructing filters over it
7 Do. do.	48,147 10 8	
12 Lakhs Drainage and Water Works Loan	4,968 11 0	
10,08,500 Miscellaneous Works Loan.	18,785 12 10	
	90,957 14 4	
		DRAINAGE.
44 Lakhs Sanitary Works Loan—Surface Drainage works	61,826 3 1	Main Sewerage of Parel 77,603 0 0
15 Lakhs Loan allotment (Drainage)	26,774 9 7	*Less*—Savings transferred to Pipe Sewers in Currey Road ... 4,246 0 0
20,88,000 do. (do.)	6,376 13 2	Do. 9″ at Lalwady 2,579 0 0
	95,177 9 10	6,825 0 0
Enlargement of Dhobi Lines	17,152 3 9	Branch pipe sewers at Parel (Corporation's Resolution No. 13318, dated 25th February 1892)
Bori Bunder Stables	1,545 1 4	Arching over main drain at Arthur Road
	1,13,874 14 11	Completing the storm-water drain, Hornby Road, (Corporation's Resolution No. 188, dated 6th April 1892)
7 Lakhs Sanitary Works Loan—additional works at Love Grove P. S.	1,786 5 9	Pipe sewer in Currey Road, transferred from the allotment for Main Sewerage of Parel, (*vide* Corporation's Resolution No. 1533, dated 25th May 1893)
12 Lakhs Drainage and Water Works Loan	71 0 0	9″ Pipe Sewer at Lalwady do. do. from do. (Corporation's Resolution No. 5327, dated 7th September 1893)
10,08,500 Miscellaneous Works Loan—Drainage Works	22,320 11 4	
	1,38,053 0 0	
44 Lakhs Sanitary Works Loan—Surface Drainage and other Drainage Works	16,010 10 6	Construction of a storm-water drain in Cruickshank Road (Corporation's Resolution No. 4870, dated 2nd August 1894)
7 Do. do. Fort Drainage Works	40,535 0 9	Sewerage of Parel District on gravitation, system, (Corporation's Resolution No. 4870, dated 2nd August 1894)
12 Lakhs Drainage and Water Works Loan, Queen's Road House Sullage Water Connections	52,147 4 9	
Rs....	1,08,693 0 0	
Rs....	†3,37,703 14 4	Total Rupees...

* *Vide* Corporation's Resolution

Out of this amount Rs. 2,595-15-6 have been adjusted in 1894-95 against the deposit of

† From the 27 Lakhs Loan .....
„ 44 Lakhs Sanitary Works Loan .....
„ do. do. .....
„ 12 Lakhs Drainage and Water Works Loan.
„ 10,08,500 Miscellaneous Works Loan.....

Savings on different Loans.

Amount sanctioned for each Work, adding or deducting transfers.	Actual Expenditure for 1893-94.			Balance.	Estimated Expenditure for 1894-95.			Anticipated Balance on 1st April 1895.
	Establishment.	Works.	Total.		Establishment.	Works.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
46,360 0 0	.....	.....	.....	46,360 0 0	.....	46,360 0 0	46,360 0 0	.....
44,597 14 4	1,718 11 4	.....	1,718 11 4	42,879 3 0	.....	42,879 3 0	42,879 3 0	.....
* 90,957 14 4	1,718 11 4	.....	1,718 11 4	89,239 3 0	.....	89,239 * 3 0	89,239 3 0	.....
* 70,778 0 0	5,325 9 11	13,496 3 4	18,821 13 3	51,956 2 9	.....	51,956 2 9	51,956 2 9	.....
20,852 0 0	1,401 14 8	5,886 7 5	7,288 6 1	13,563 9 11	.....	13,563 9 11	13,563 9 11	.....
* 18,000 0 0	382 6 0	11,881 0 5	12,263 6 5	5,736 9 7	.....	3,058 0 0	3,058 0 0	2,678 9 7
21,598 0 0	1,485 6 6	12,974 12 1	14,460 2. 7	7,137 13 5	.....	.....	.....	7,137 13 5
4,246 0 0	125 1 7	5,066 13 4	‡ 5,191 14 11	*—945 14 11*	.....	.....	.....	*—945 14 11*
2,579 0 0	.....	478 . 4 1	478 4 1	2,100 11 11	.....	2,100 11 11	2,100 11 11	.....
1,38,053 0 0	8,720 6 8	49,783 8 8	58,503 15 4	79,549 0 8	.....	70,678 8 7	70,678 8 7	9,816 7 0 *—945 14 11*
2,29,010 14 4	10,439 2 0	49,793 8 8	60,222 10 8	1,68,788 3 8	.....	1,59,917 11 7	1,59,917 11 7	8,870 8 1
27,073 0 0	.....	.....	.....	27,073 0 0	1,170 0 0	25,903 0 0	27,073 0 0	.....
81,620 0 0	.....	.....	.....	81,620 0 0	4,680 0 0	76,940 0 0	81,620 0 0	.....
1,08,693 0 0	.....	.....	.....	1,08,693 0 0	5,850 0 0	1,02,843 0 0	,08,693 0 0	.....
3,37,703 14 4	10,439 2 0	49,783 8 8	60,222 10 8	2,77,481 3 8	5,850 0 0	2,62,760 11 7	,68,610 11 7	8,870 8 1

No. 11358, dated 14th January 1892.
Rs. 4,210-2-8 received from Messrs. E. D. Sassoon & Co. in connection with this work.

Rs.	14,378	2	9
,,	1,34,563	2	6
,,	90,469	1	2
,,	57,186	15	9
,,	41,106	8	2
Rs.	3,37,703	14	4

M.

Advances for works for which Loans are either not sanctioned or raised.

Nature of Loan Works.	Actual Expenditure up to 31st March 1894.			Estimated Expenditure for 1894-95.			Grand Total.
	Establishment.	Works.	Total.	Establishment.	Works.	Total.	
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Cost of site for the New Market at Colaba	.....	28,060 0 0	28,060 0 0	.....	.....	.....	28,060 0 0
Roads and Streets in Agripada and elsewhere	.....	6,93,119 10 2	6,93,119 10 2	.....	.....	56,880 5 10	7,50,000 0 0
Laying 27" and 24" mains from the Malabar Hill Reservoir to the Frere Fountain, Fort	975 0 0	49,118 1 2	50,093 1 2	.....	.....	.....	50,093 1 2
Connection at Chinchpokli between Vehar and Tansa Mains	.....	6,765 3 7	6,765 3 7	.....	398 12 5	398 12 5	7,164 0 0
Survey for pipesewers in Umarkhadi and other districts	11,621 6 1	.....	11,621 6 1	.....	.....	.....	11,621 6 1
Altering drawings for the sewerage in Umarkhadi districts, &c.	458 6 9	.....	458 6 9	.....	.....	.....	458 6 9
Health Department Stables in F and G Wards	1,560 12 9	17,701 11 0	19,262 7 9	2,009 3 3	57,472 5 0	59,481 8 3	78,744 0 0
Health Department biggaris' Chawl at Bori Bunder	560 10 8	223 4 0	783 14 8	2,319 5 4	49,471 12 0	51,791 1 4	52,575 0 0
Preparing plans and estimates for the sewerage of Mazagon, Parel, &c.	.....	.....	.....	29,219 0 0	.....	29,219 0 0	29,219 0 0
	15,176 4 3	7,94,987 13 11	8,10,164 2 2	33,547 8 7	1,07,342 13 5	1,97,770 11 10	10,07,934 14 0

N.—SUMMARY.

Amount of Loans sanctioned.		Amount of Loan raised.	*Add*—Transfers from other Loans.	Deduct. Transfers to other loans.	Deduct. Transfers to New Works not included in any Loans.	Net amount available.	Actual expenditure up to 31st March 1894.	Balance on 1st April 1894.	*Less*—Transfers sanctioned in 1894-95. From one Loan to another.	*Less*—Transfers sanctioned in 1894-95. To New Works not included in any Loans.	Estimated expenditure in 1894-95.	Anticipated balance on 1st April 1895.	Advances from surplus balances.
Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
27,00,000 0 0	27 Lakhs Drainage and Water Works Loan as per Statement ..... A	26,94,000 0 0	.....	.....	14,378 2 9	26,79,621 13 3	26,45,801 10 3	33,820 3 0	.....	.....	33,820 3 0	.....	.....
44,00,000 0 0	44 Lakhs Sanitary Works Loan as per Statement ..... B	44,00,000 0 0	{ 44,521 1 6 1,86,235 3 11	.....	1,18,552 8 0	42,92,203 13 5	39,22,493 4 9	3,69,710 8 8	.....	16,010 10 6	2,17,319 4 8	1,86,380 9 6	.....
7,00,000 0 0	7 Lakhs Sanitary Works Loan as per Statement C	7,00,000 0 0	.....	A 4,521 1 6	40,934 0 5	6,45,544 14 1	5,95,023 15 6	50,520 14 7	.....	40,535 0 9	9,985 13 10	.....	.....
1,47,00,000 0 0	Tanks Water Works Loan of 1 crore and 47 lakhs as per Statement ..... D	1,47,00,000 0 0	.....	.....	.....	1,47,00,000 0 0	1,46,29,321 12 9	70,678 3 3	.....	.....	70,678 3 3	.....	.....
12,00,000 0 0	12 Lakhs Drainage and Water Works Loan as per Statement ..... E	12,00,000 0 0	.....	.....	5,039 11 0	11,94,960 5 0	9,71,088 9 8	2,23,871 11 4	—50,000 0 0	52,147 4 9	15,000 0 0	1,06,724 6 7	.....
10,08,875 0 0	10,08,500 Miscellaneous Works Loan as per Statement ..... F	10,08,500 0 0	.....	B 6,235 3 11	41,106 8 2	9,61,158 3 11	(a) 6 23,889 9 6	3,32,268 10 5	.....	.....	8,29,190 13 2	3,077 13 3	.....
2,48,000 0 0	Agripada House Sullage Water-connection Loan as per Statement ..... G	2,48,000 0 0	.....	.....	.....	2,48,000 0 0	2,22,040 3 2	25,959 12 10	.....	.....	9,326 2 9	16,633 10 1	.....
35,00,000 0 0	35 Lakhs Various Sanitary Works Loan as per Statement ..... H	35,00,000 0 0	.....	.....	.....	35,00,000 0 0	(b) 28,48,110 3 0	6,51,889 13 6	.....	.....	(—)6,37,010 7 9	14,879 5 3	.....
8,00,000 0 0	8 Lakhs Municipal Building Loan as per Statement I	8,00,000 0 0	.....	.....	.....	8,00,000 0 0	6,67,025 11 0	1,32,374 5 0	.....	.....	70,497 7 11	61,876 13 1	.....
4,50,000 0 0	4½ Lakhs Fire Brigade Loan as per Statement ..... J	4,50,000 0 0	.....	.....	.....	4,50,000 0 0	1,78,285 0 5	2,71,714 15 7	.....	.....	2,71,584 7 9	130 7 10	.....
23,25,000 0 0	23½ Lakhs Loan for Drainage and other works as per Statement ..... K	13,00,000 0 0	.....	.....	.....	13,00,000 0 0	6,78,087 5 2	6,21,912 10 10	+ 50,000 0 0	.....	15,31,863 10 3	.....	8,59,950 15 5
3,20,31,875 0 0		3,10,00,500 0 0	10,756 5 5	10,756 5 5	2,29,010 14 4	3,07,71,489 1 8	2,79,86,767 5 2	27,84,721 12 6	.....	1,08,693 0 0	31,96,276 10 4	3,39,703 1 7	8,59,950 15 5
	Works sanctioned out of savings on different Loan works as per Statement L					2,29,010 14 4	60,222 10 8	1,68,788 3 8	+	1,68,693 0 0	2,68,670 11 7	8,870 8 1	.....
	Advances for works for which loans are not sanctioned or raised as per Statement ..... M					3,10,00,500 0 0	2,80,46,990 15 10	29,53,516 0 2			34,64,887 6 11	3,48,573 9 8	8,59,950 15 5
							8,10,161 2 2				1,97,770 11 10	.....	10,07,934 14 0
							2,88,57,154 2 0				36,62,658 1 9	3,48,573 9 8	18,67,885 13 5

(a) Excluding Rs. 28,060 advanced from surplus balances on account of a portion of the cost of site for the Colaba market which sum is shown in Statement M.
(b) Excluding Rs. 6,93,119-10-2 advanced from surplus balances to meet the cost of land purchased for frontages, &c., in connection with the roads and streets in Agripada and elsewhere which sum is shown in Statement M.
(c) Excluding Rs. 56,865-5-10 to be advanced from surplus balances in connection with roads and streets in Agripada and elsewhere, *vide* Statement M.

No. 8348. *Resolved :* "That the following be referred to the Acting Commissioner for favour of remarks :—Letter to the President from Messrs. Sassoon J. David, Dinsha F. Commissariatwalla and others, on the subject of the want of drainage in the locality of Carroll, Elphinstone and Bhoiwada Roads."

No. 8349. *Resolved* : "That, as applied for by the Acting Commissioner in his letter to the Secretary, No. 18076, dated 5th instant, sanction be given to the acceptance of the tender of Messrs. H. Kassum & Co. for the supply of clothing for the ensuing year, at the following rates :—

Rs. 37-8-0 for Havildar's clothing.
„ 19-0-0 „ Peons „
„ 13-0-0 „ Clothing for the animal-keepers, Victoria Gardens.

The amount to be met from the budget provision for the same."

No. 8350. *Resolved :* "That the following be *recorded* :—Letter No. 17957, dated 5th instant, from the Acting Commissioner to the Secretary, reporting that the right of cutting and removing grass, within three weeks, from the frontage land along the Connaught and Sussex Roads, was sold by public auction to Mr. Tukaram Malhar, Contractor, for Rs. 4." *

No. 8351. *Resolved* : "That the following be recorded, the Committee having decided to visit the localities on Sunday, the 11th instant, by the train leaving Church Gate Street Station at 4-15 P.M. (local time)."

Letter No. 17958, dated 5th instant, from the Acting Commissioner to the Secretary, requesting the

* The right was sold for the first time this year.

Committee to inspect, after their meeting on 7th idem, the drainage around the Elphinstone Road Station and the drainage in Parel village. Stating that he (the Acting Commissioner) is anxious to show members the serious and urgent necessity of improving the drainage of Parel, which is the most unhealthy district in Bombay."

No. 8352. *Resolved* : "That the consideration of the following be postponed till next week, and that in the meanwhile the Acting Commissioner be asked to submit, for circulation to the Committee, the opinion of the Solicitors on the subject of set-back agreement :—Memorandum No. 17255, dated 25th ultimo, from the Acting Commissioner to the Secretary, reporting on letter, dated 24th September last, from Mr. Dossabhai Sorabji, on the subject of the demolition of his property at 1st Pinjrapol Street."

The following statement* was laid on the table :—

The statement of the height of water in the Vehar, Tulsi, Pawai, and Tansa Lakes, for the week ending 4th November 1894.

No. 8353. *Resolved* : "That, as applied for by the Acting Commissioner in his letter to the Secretary, No. 18180, dated 5th instant, the Standing Committee approve, under the terms of section 407 of the Municipal Act, of the occupancy of the pens in the

* See Appendix B.

DeLisle Road new Sheep Market for the half-year ending 31st March 1895, as per following list" :—

Pen No.	Name of the Fadkaree.	Rent for six Months.	License fee for six Months.	Total.
		Rs.	Rs. a.	Rs. a.
1	Kondajee Mahadoo	70	12 8	82 8
2	Luxumon Nanu	65	12 8	77 8
3	Toockaram Khundoojee	75	12 8	87 8
4	Abdool Manajee	65	12 8	77 8
5	Hajee Abdool...	60	12 8	72 8
6	Appoojee Manaji	60	12 8	72 8
7	Pandoo Bapu...	55	12 8	67 8
8	Vithal Shiwa...	55	12 8	67 8
9	Nabi Nagoo	45	12 8	57 8
10	Booban Hassan	50	12 8	62 8
11	Kondaji Mahadoo	55	12 8	77 8
12	Narayan Mahadeo	70	12 8	82 8
13	Bhagoo Koosajee	70	12 8	82 8
14	Nama Saloojee	55	12 8	67 8
15	Boodan Camajee	55	12 8	67 8
16	Boorajee Goonajee	50	12 8	62 8
17	Mia Hussein	50	12 8	62 8
18	Ananda Masoo	45	12 8	57 8
19	Janoo Emam...	45	12 8	57 8
20	Sarwar Lalloo	40	12 8	52 8
21	Valli Mahomed	40	12 8	52 8
22	Chandoo Mohideen	45	12 8	57 8
23	Girjoo Luxumon	40	12 8	52 8
24	Chandoo Booban	35	12 8	47 8
25	Rahim Nathoo	35	12 8	47 8
26	Canoo Ralanji	40	12 8	52 8
27	Shripal Babajee	45	12 8	57 8
28	Guba Bhickha	45	12 8	57 8
29	Bhiwa Mahipatee	45	12 8	57 8
30	Hoosain Ranoo	40	12 8	52 8
31	Sawoobai Emajee	40	12 8	52 8
32	Ramchandra Mahipatee	40	12 8	52 8
33	Bhiccoo Mairalla	40	12 8	52 8
34	Hoosain Khanoo	40	12 8	52 8
35	Hoosain Mahomed	40	12 8	52 8
36	Dhackoo Ragoo	40	12 8	52 8
37	Sajan Fackira	40	12 8	52 8
38	Furid Manaji...	40	12 8	52 8
39	Lalloo Appoojee	40	12 8	52 8
40	Chandoo Manick	40	12 8	52 8
41	Narayen Raghoo	35	12 8	47 8
42	Papu Dawal	40	12 8	52 8
43	Abu Mahipatee	40	12 8	52 8
44	Boodan Mohideen	45	12 8	57 8
45	Harree Goonaji	45	12 8	57 8
46	Amir Chand	40	12 8	52 8
47	Govinda Yessoo	45	12 8	57 8
48	Niraji Bhawoo	60	12 8	72 8
49	Piroo Rajanna	65	12 8	77 8
50	Furid Manaji...	60	12 8	72 8
		2,415	625 0	3,040 0

Resolved : "That the following be *recorded* :—Letter
No. 8354. No. 18234, dated 6th instant, to the Secretary from the Acting Commissioner, reporting, with reference to the resolution of the Standing Committee, No. 7220, dated 3rd ultimo, that in addition to the special stoneware bends and junctions required for pipe sewer manholes for discharging sewage from one level to another, he has ordered the purchase from Messrs. Richardson and Cruddas of a 15-inch stoneware balance valve, at a cost of Rs. 28-8-0 to the debit of the sanctioned grant of Rs. 981."

Resolved : "That the following be *recorded* :—Letter
No. 8355. No. 18069, dated 6th instant, to the Secretary from the Acting Commissioner, reporting that he has sold, by public auction, the right of collecting the crops of chickoo buckoolee, and star apples, in the Victoria Gardens from October 1894 to March 1895, to Gunnoo Tukaram for Rs. 48."*

Resolved : "That, as applied for by the Acting Com-
No. 8356. missioner in his letter to the Secretary, No. 18202, dated 6th instant, the Standing Committee, under the terms of section 348 (*b*) of the Municipal Act, assent to the disapproval by the Acting Commissioner of the application made by Messrs. Gostling and Morris, Architects for Messrs. E. D. Sassoon and Co., for permission to extend the present cloth-folding room of the Jacob Sassoon Mills, on site to the north of Currey Road, and shown in red colour on the tracing marked "A," dated this day, and filed in Supplement to Minute Books, as such ground is required for the proposed over-bridge at Currey Road."

Resolved : "That, as applied for by the Acting Com-
No. 8357. missioner in his letter to the Secretary, No. 18213, dated 6th instant, sanction be given to the purchase of 1,500 brass of road metal, at Rs. 5-12-0 per brass, from Messrs. Teju Kaya & Co. at the risk and cost of the current year's contractor for the supply of such material, who has failed to fulfil the indents made on him by the Executive Engineer, under the terms of the contract."

* The sale realised Rs. 175 last year.

BOMBAY, 11*th November* 1894.

As previously arranged, the Standing Committee, at the request of the Acting Commissioner, met this day at the Elphinstone Road Station, B. B. & C. I. Railway, for the purpose of inspecting and satisfying themselves as to the alleged insanitary condition of dwellings in the immediate neighbourhood of that station, of Parel village, and of the houses in rear of Parel market to the east of the gas works, as also of Lalwady.

The members present were: G. W. Roughton, Esq., Chairman; Bhalchandra K. Bhatawadekar, Esq.; Hurkisondas Nurrotumdas, Esq.; The Hon'ble Mr. Javerilal U. Yajnik; K. M. Shroff, Esq.; Accacio G. Viegas, Esq.; and Captain W. P. Walshe.

Surgeon-Lt.-Col. T. S. Weir, *Acting Commissioner; Surgeon*-Major K. R. Kirtikar, *Acting Health Officer; Mr. C. C. James,* Drainage Engineer; Mr. Glover, *Acting Assistant Health* Officer; and the Secretary.

Some of the *Inspectors and Sub-Inspectors of the Health* Department were also present.

The inspection engaged the attention of the Committee until about 6 o'clock. The general conclusion arrived at, was that a scheme for the drainage of these insanitary districts should be prepared with the least possible delay, and that a scheme of house connections, to provide for the connection of the houses in Parel village with the pipe sewer already completed in the village, should be submitted for the Corporation's sanction at as early a date as may be.

BOMBAY, 14*th November* 1894.

AT the Meeting of the Standing Committee held this day, there were present:

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPT. W. P. WALSHE.

Surgeon-Lieutenant-Colonel T. S. WEIR, Acting Commissioner; the DRAINAGE ENGINEER, on Special Duty; the Acting CHIEF ACCOUNTANT; and the SECRETARY.

The minutes of the meeting held on the 7th instant, were signed.

The seal of the Corporation was affixed to the following debentures :—1 attested duplicate debenture of the Bombay Municipal Sanitary works loan of 1888, No. 431-32 of Rs. 1,000 ; 20 attested duplicate debentures of the Bombay Municipal Sanitary works loan of 1885, No. 446 N.N. to 455 N.N., 1970 N.N., 3359 N.N., and 3400 N.N. to 3407 N.N. of Rs. 500 each ; 61 consolidated debentures of the Bombay Municipal Sanitary works loan of 1885, Nos. 1220-1221 N.N , 3253-3254 N.N., 3360-3361 N.N., 4440-4441 N.N. to 4482-4483 N.N., 4528-29 N.N. to 4538-4539 N.N. and 4840-41 N.N. to 4898-99 N.N. of Rs. 1,000 each ; 3 consolidated debentures of the Bombay Municipal Sanitary works loan of 1885, Nos. 1088-1091 N.N. to 1096-1099 N.N., of Rs. 2,000 each ; 1 consolidated debenture of the Bombay Municipal Sanitary works loan of 1885, Nos. 5030-5035 N.N. of Rs. 3,000 ; 5 consolidated debentures of the Bombay Municipal Sanitary works loan of 1885, Nos. 183-192 N.N., 193-202 N.N., and 5000-5009 N.N. to 5020-5029 N.N. of Rs. 5,000 each.

The question of sealing deed of contract with Messrs. Teju Kaya and Co., for the supply of 1,500 brass of road metal, was deferred till next week.

No. 8710. *Resolved*: "That letter dated 14th instant, from Mr. Sorabji Nowroji Moosa, on the subject of his contract for the supply of road metal, be forwarded to the Acting Commissioner for remarks."

No. 8711. *Resolved* : "That, as applied for by the Acting Commissioner in his memorandum No. 18887, dated 13th instant, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 8712. *Resolved* : "That, as applied for by the Acting Commissioner in his memoranda Nos. 18559 and 18587, dated 9th and 10th instant, sanction be given, under section 351 (2) of the Municipal Act, to the removal of the following structures built without permission" :—

Names of owners.	Where.
Mr. Haricharan Sitalprasad.....	Shed at Girgam Road.
„ Bapu Salar	Do. 3rd Khetwadi Lane.

Read the following:—

No. 16197 of 1894-95.

Bombay, 12*th November* 1894.

To the COMMISSIONER.

Sir,—In returning your No. 18400 of 8th instant, I have the honour to report as follows:—

2. The tender of the contractors for the new biggaries' chawl was accepted on the 9th September 1893. After the tender was accepted a clerk on Rs. 40 per mensem was engaged, with your sanction, for preparing contract papers, copying specifications and carrying on correspondence, &c., in connection with the work. After the contract was prepared, the Health Officer was requested to vacate the chawls for the biggaries, then standing on the ground, to make room for the new buildings. That officer, however, expressed his inability to provide quarters for the biggaries outside, and the question regarding the provision of accommodation in the temporary chawls was raised. Considerable correspondence took place, and delay occurred in starting this work, owing to the difficulty of acquiring a suitable site. After a site was acquired, it was decided to construct temporary chawls when the services of an Inspector were engaged for preparing detailed drawings of the permanent chawls and the plans and estimates of the temporary ones.

3. As soon as the temporary buildings were started, the establishment was engaged in supervising the construction of that work. The full strength of the establishment was not employed during the time that the permanent buildings were in abeyance, but only two men were employed, as stated above, in preparing the detailed plans of the permanent buildings and in supervising the construction of the temporary ones.—I have, &c.,

M. C. MURZBAN, Executive Engineer.

No. 3376 of 1894-95.

Bombay, 14*th November* 1894.

To the COMMISSIONER.

As the contract for the work was let and as the services of an extra clerk were found necessary in this office for this and other Loan works* in connection

* F and G Ward Stables, Colaba Market, Arthur Crawford Market, Extension of Mutton Markets.

with the Health Department, which were in progress, the junior audit clerk was employed as per arrangements reported to the Commissioner in this office No. 4906, dated 31st March 1894, and approved of under his No. 58, dated 2nd September 1894.

W. PEARSON, Acting Chief Accountant.

No. 18991 OF 1894-95.

14th November 1894.

Copies forwarded to the Municipal Secretary in reference to the Standing Committee Resolution No. 8336 of the 7th current.

T. S. WEIR, Acting Commissioner.

Resolved : "That, with reference to his memorandum No. 18991, dated this day, the Acting Commissioner be asked to inform the Committee of the date on which the work of constructing bigaries' chawls at Bori Bunder was sanctioned by the Corporation, of the date of the actual commencement of the work, and what was the reason for expending over Rs. 500 on supervising establishment to the end of March last."

No. 8713.

Resolved : "That, as applied for by the Acting Commissioner in his letter to the Secretary, No. 18463, dated 8th instant, sanction be given to the acceptance of the tender of Messrs. Mistri Bhedwar Vachaghandi & Co., the lowest of the three tenders received for works in pipe sewers, manholes, &c., for a portion of the Parel Sewerage District, at schedule rates, aggregating Rs. 51,704.

No. 8714.

"The amount to be met from the sanctioned provision for the same, Rs. 70,974 (or Rs. 63,558, excluding road repairs, removal of surplus material, cost of flushing streets, &c., which charges are not included in the tender)."

Resolved : "That, as applied for by the Acting Commissioner in his letter to the Secretary, No. 18518, dated 9th instant, sanction be given to the purchase of pipes, as per following list, from Messrs. Burn and Co., Ranigunj, at a cost of

No. 8715.

Rs. 1,445, for use experimentally in the Parel Sewerage Works, in Jijeebhoy Dadabhai Lane. The cost to be debited to savings in the grant for the sewerage of Parel."

Quantity.	Description.	Rate.		Per	Amount.	
		Rs.	Milles.		Rs.	Milles.
1300 r. ft.	9" Stoneware pipes (2' long.)...	0	880	R. ft.	1,144	...
65 Nos.	9" × 6" Do. Quadrant junctions	4	625	each	300	625
				Total Rs.	1,445	..

No. 8716. *Resolved* : "That, as applied for by the Acting Commissioner in his letter to the Secretary, No. 18458, dated 8th instant, sanction be given, under the terms of section 305 of the Municipal Act, to the service of a notice in writing on the owners of the several premises fronting, adjoining or abutting on the private lane (which is reported to be in a most insanitary and unsatisfactory condition), running from the north end of the Byculla Bridge along the north wall of Gold Mohur Castle compound, requiring them to level, metal or pave, drain and light the same in such manner as the Commissioner may direct."

No. 8717. *Resolved* : "That, as applied for by the Acting Commissioner in his memorandum to the Secretary, No. 18473, dated 8th instant, and subject to the approval of the Corporation under section 133 (2) of the Municipal Act, sanction be given to the transfer of Rs. 700 from savings in the grant for Halalkhor Branch, A. Superintendence, to General Supervision Conservancy, 3 Contingencies, fees for summonses in conservancy cases, to meet excess on the latter head due to insufficient budget provision."

No. 8718. *Resolved* : "That, as applied for by the Acting Commissioner in his memorandum No. 18669, dated 12th instant, sanction be given to the transfer

of Rs. 400 from savings in the grants for Account and expenditure Audit Establishment, and Municipal Commissioner's personal office, Sections I. & II. Establishment, respectively, to Account and expenditure Audit Establishment II. Printing charges, to meet excess on the latter head due to the printing of new pay abstracts and leave and service registration, muster roll, absentee forms, and other similar items."

No. 8719. *Resolved* : "That the following be *recorded* :—Memorandum No. 18390, dated 8th instant, from the Acting Commissioner to the Secretary, reporting with reference to the Committee's Resolution No. 5620, dated 9th January 1889, the transfer on the 26th ultimo, of 5 per cent. Municipal debentures for Rs. 16,500, from the Surplus Cash deposit account to the Municipal Loans Sinking fund deposit account."*

In accordance with notice, it was proposed by G. W. Roughton, Esq.—

No. 8720. "That, in the opinion of the Standing Committee, as the result of their inspection of the wholly undrained districts surrounding Elphinstone Road Station, of the B. B. & C. I. Railway, and the swampy ground in rear of Parel Market and Lalwady, a scheme for the drainage of these and similarly undrained districts should be forthwith prepared, and that the Commissioner be requested to deal with the question with the least possible delay.

"That, in order to allow of the drainage system which has been provided for Parel village being utiliz-

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* The Acting Chief Accountant reports to the Acting Commissioner that the balance standing to the credit of the above deposit account, after effecting the above transfer, is as under :—

In 5 per cent. Municipal debentures for...	Rs. 18,20,500	Rs. 18,20,500 0 0
„ 4 „ „ „ ...	„ 84,000	„ 84,000 0 0
„ 4 „ Government Paper for ...	„ 2,89,500	„ 3,00,607 13 0
		Rs. 22,05,107 13 0
In cash		„ 41,822 9 0
		Rs. 22,46,930 6 0

ed with as little delay as possible, the Corporation be recommended to sanction a scheme of house connections for the village as early as may be."

The motion was seconded by Cowasjee Hormusjee, Esq.

Carried.

Read letter No. 18998, dated this day, from the Acting Commissioner to the Secretary, as under, the consideration of which was postponed until next week.

SIR,—I have the honour to forward an estimate of Rs. 25,288 for converting into an open drain with paved bottom and sides the ditches in Elphinstone Road which the Standing Committee inspected with me on Sunday last. The construction of the open drain will give a flow to the sewage and carry it beyond the ditch between chawls where it now settles.—I have, &c.,

T. S. WEIR, Acting Commissioner.

No. 6033 OF 1894-95.

BOMBAY, 14*th November* 1894.

TO THE COMMISSIONER.

SIR,—With reference to your verbal instructions of the 12th instant, I have the honor to forward herewith estimate marked $\frac{\text{S. A.}}{13\text{-}11\text{-}94}$ amounting to Rs. 25,288 for the construction of an open masonry drain with pitched sides to confine the sewage which at present spreads itself over a considerable area between Supari Bag Road and DeLisle Road, and as inspected by the Standing Committee on the 11th instant. (2) This open drain only provides for the dry weather flow of sewage as it would not be possible to provide a drain of sufficient size to cope with the large quantity of storm-water which passes over the lower ground above mentioned.—I have, &c.,

C. C. JAMES, A.M.I.C.E.,
Drainage Engineer.

Estimate framed of the probable expense that will be incurred in constructing an open masonry drain for sullage on the line of the existing water course between Supari Bag Road and DeLisle Road, Rs. 25,288.

ABSTRACT.

Quantity.	Items.	Rate.	Per	Amount.
		Rs. a. p.		Rs. dec.
3632 r. ft.	Open masonry drain 1'—3" × 1'—3" ovoid shaped with extra foundation as per accompanying section and details	3 8 0	R. ft.	12,712·00
14301 c. ft.	Rubble masonry	20 0 0	100 c. ft.	2860·20
99880 „	Filling in with contractor's earth.....	3 4 0	„	3246·10
26695 s. ft.	Dry rubble-stone pitching	12 0 0	100 s. ft.	3203·40
1. No.	One masonry culvert underneath private passage built complete.....	500 0 0	Lot.	500·00
467 s. dy.	Raising road by 1 foot with metal and packing	1 0 0	s. yd.	467·00
				22,988·70
	Add 10 per cent. contingencies ...			2298·87
				25,287·57
	Say Rs.			25,288

	No.	Length.	Breadth.	Depth.	Quantity Decim.	Total.
Open masonry drain 1'—3" × 1'—3" ovoid shaped with extra foundation as per accompanying section	...	3632	...	...	3632	3632 r. ft.
Rubble masonry for filling in hollows in the bed of water course	...	3632	3·75	1	13620	
Add 5 per cent.	...	...	...	...	681	
					14301	14301 c. ft.
Filling in with Contractor's earth.....	2	3632	10·	1·25	90800	
Add 10 per cent.....	...	...	...	...	9080	
					99880	99880 c. ft
Dry rubble-stone pitching on sides of masonry drain.....	2	3632	3·5	...	25424	
Add 5 per cent.	...	...	...	...	1271	
					26695	26695 s. ft.
Masonry culvert underneath private passage built complete	1	...	...	...	1	1 No.
Raising road with 6" metal and 6" of packing.....	...	200	20	...	4000	
Add 5 per cent.	...	...	...	...	200	
				9)	4200	s. ft.
					467	s. yds.
						467 sq. yds.

Details of rate of Rs. 3-8-0 per foot run of 15"×15". Open ovoid shaped drain with extra foundations (as per accompanying sketch) per 100 R. ft.

General excavation $1\times100\times3\cdot75\times2=750$
Add 5 per cent. ..... 37·50

788 c. ft. At 1-8-0 per 100 c. ft. } Rs. = 11·82

Common lime concrete $1\times100\times3\cdot75\times1=375$
Add 5 per cent. ..... 18·75

394 c. ft. At 16-0-0 per 100 c. ft. } = 63·04

Area.

Cement concrete at haunches $1\times100\times\cdot43=43\cdot00$
Add 5 per cent. 2·15

45 c. ft. At 65-0-0 per 100 c. ft. } = 29·25

Rubble masonry .....$1\times100\times3\cdot75\times1=375$
Do. walls of Drains $2\times100\times1\cdot25\times1\cdot25=312\cdot50$

687·50
Add 5 per cent. 34·38

722 c. ft. At 22-0-0 per 100 c. ft. } = 158·84

Cement plaster (with top of wall)..... $1\times100\times5\cdot75=575$
Add 5 per cent. 28·75

604 s. ft. At 12-0-0 per 100 s. ft. } = 72·48

Filling in with Municipal earth ..... 788 c. ft. At 0-10-0 per 100 c. ft. } = 4·93

100) 340·36

3·40

Say, 3·50 Rs. per one R. ft.

Resolved : "That the following be placed on the list of outstanding business pending the receipt of a report from the Commissioner, as asked for this day :—Letter No. 18745, dated 12th instant, from the Acting Commissioner to the Secretary, in-

No. 8721.

viting attention to the proposals to make house connections in one portion of the Parel district. Stating that there is no doubt that in portions of Parel House Road sewer connections are urgently needed, not only to abate nuisances, but to prevent most serious nuisances."

Read letter, dated Bora Bazar Street, 12th instant, to the Chairman, from Mrs. Jerbai Cooverji Doctor forwarding for inspection by the Committee address to H. E. the Viceroy composed by her and worked in gold and silver embroidery by her own hands. Mrs. Doctor asked for the favour of the Committee's opinion of the work.

The Committee having as a special case, inspected the embroidered work in question expressed their approval thereof.

Proposed by Cowasjee Hormasjee, Esq., seconded by K. M. Shroff, Esq.—

That, as applied for by the Acting Commissioner, in his letter to the Secretary, No. 17255, dated 25th ultimo, sanction be given to Mr. Dossabhoy Sorabji, being allowed to retain, on the following conditions, the works executed within the regular line of the street at his house, 1st Pinjrapol, *viz.*, (*a*) That the land required from him for the street improvement admeasuring 21 square yards, or thereabout, shown in yellow colour on the plan marked A, dated this day, and filed in "Supplement to Minute Books," be sold to the Municipality at the rate of Rs. 15 per square yard, *minus* the capitalized amount of ground rent, if any, payable either to Government or the Fazindar as the case may be, calculated at 25 years' purchase. (*b*) That the Municipality lease the 21 square yards to Mr. Dossabhoy Sorabji, at an annual rent to be paid by him to the Municipality in advance calculated at 6 per cent. on the total amount paid to him by the Municipality, for the absolute purchase of the land, the said rent to be paid by him until such time as the house on the north side of the property in question becomes liable to be set-back. (*c*) That he pays the cost of stamping and registering the agreement. (*d*) That when the house on the north, adjoining his property,

becomes liable to be set-back he shall remove the superstructure which stands on the said 21 square yards of land within the regular line of the street, and make over the said 21 square yards, or thereabout, to the Municipality, clear of all encumbrances.

The motion was *lost* the votes being 2 *for* and 6 *against*.

No. 8724. *Resolved*: "That the following be forwarded to the Acting Commissioner for favour of remarks :—Letter, dated 6th instant, from Mr. Framji Bomanjee Jeejeebhoy complaining of the erection of a latrine in front of his property in Parel Back Road."

No. 8725. *Resolved*: "That the following be forwarded to the Acting Commissioner for favour of remarks :—Letters to the President, dated 6th and 13th instant, from Mr. Narayen Virjee complaining of the notice served on him for the removal of the weather frame from his property, No. 48-54, Musjid Bunder Road, South."

Considered petition to the Corporation, dated 8th October 1894, from Mr. Narayan Krishna Bhandari, complaining of the action of the Executive Engineer's Department in regard to his premises, No. 489, Mori Road, Mahim.

Read letter No. 18179, dated 5th instant, as under, to the Secretary, from the Acting Commissioner:—

SIR,—In reference to your No. 7579 of the 11th ultimo, I have the honour to report that the permission granted, under letter No. 3849 of 28th May 1894, was for only repairing the roof and not for raising the height of the building and renewing the roof, which work was done by the petitioner without obtaining the Municipal permission. This work so objected to was therefore removed, as also the unauthorized work executed within the regular line of the street.

The Executive Engineer reports that the roof and the work over the verandah were removed after giving sufficient time and warning to the petitioner, and that the statement to the effect that the owners of the neighbouring houses have erected tata walls is incorrect. The applicant's request to put up jaolies was not entertained, and he was informed that he would be permitted to construct a tiled shed on his obtaining the necessary permission and approval, but that the existing posts were not strong enough for such construction.—I have, &c.,

T. S. WEIR, Acting Commissioner.

Resolved: "That, with reference to application from Mr. Narayan Krishna Bhandari, dated 8th October 1894, the Corporation be informed that the Commissioner reports that the permission granted, under letter No. 3849 of 28th May 1894, was only for repairing the roof and not for raising the height of the building and renewing the roof, which work was done by the petitioner without obtaining permission from the Municipality. The work so objected to was therefore removed, as also the unauthorized work executed within the regular line of the street.

No. 8726.

"That the roof and the work over the verandah were removed after giving sufficient time and warning to the petitioner, and that the statement to the effect that the owners of the neighbouring houses have erected tata walls, is incorrect. The applicant's request to put up jaolies was not entertained, and he was informed that he would be permitted to construct a tiled shed on his obtaining the necessary permission and approval, but that the existing posts were not strong enough for such construction."

Read letter No. 18628 dated, 12th instant, from the Acting Commissioner to the Secretary, as under :—

SIR,—I have the honour to request permission to withdraw my letter No. 16551 of the 18th ultimo, in regard to leasing the stables belonging to H. H. Aga Khan at Bellasis Road for the present, as I believe there is likely to be opposition to the establishment of a Health Department stable here. It is, however, a position which, I think, the Municipality would do well to acquire.—I have, &c.,

T. S. WEIR, Acting Commissioner.

Resolved : "That letter No. 18628, dated 12th instant, from the Acting Commissioner to the Secretary, be *recorded*, and that the Acting Commissioner's letter No. 16551, of 18th October last, be considered as withdrawn."

No. 8727.

Resolved: "That the following be forwarded to the Acting Commissioner for favour of remarks :—Letter dated 12th instant, from Messrs. Little, Smith, Nicholson and Bowen, on behalf of their client Shri Chimanlalji, stating that if their

No. 8728.

client were allowed to erect shops in the place of the old servants' quarters, on a site abutting on the Bhuleshwar Road, he would be willing to enter into an agreement with the Municipality to set-back his building and hand over the land required by the Municipality as soon as the lines of set-back on both sides of the road."

The following return was read and *recorded* :—

Return of fires at Kamatipura 2nd Lane, Kelvin Road, Warli, Mugbhat, and Ghoghari Mohla, forwarded with the Commissioner's Memoranda Nos. 18080 and 18661, dated 5th and 12th November 1894.*

The following statement† was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 11th November 1894.

The consideration of the Budget Estimates for 1895-96 was proceeded with.

In his introduction the Acting Commissioner wrote :—

OPENING BALANCE.

The opening balance is estimated at Rs. 18,25,000 after providing for all grants sanctioned and likely to be sanctioned for the year 1894-95. The details are as under :—

Estimated closing balance at page 5 of Budget for 1894-95	Rs.	17,67,289
Actual opening balance in excess of the estimated balance on 1st April 1894 (*see* pages 93 to 98 of the Administration Report for 1893-94), exclusive of value of Reserve Stock (Rs. 9,03,991)	„	1,80,786
Interest and profit on Investments of Surplus Loan and other Balances to be received in excess of the Budget Estimate for the current year	„	46,000
Savings on debt and grants for the current year	„	50,000
	Rs.	20,44,075

* *See* Appendix C. † *See* Appendix B.

Deduct—Grants from cash balance sanctioned up to 1st November 1894, exclusive of advances for Loan Works, Stock, &c.	Rs. 1,34,682	2 9	
Add—Reserved for probable extra grants to end of the current financial year...	Rs. 84,392	13 3	
			Rs. 2,19,075

Opening balance for 1895-96, including the one lakh required by law .....Rs. 18,25,000

This balance of Rs. 18,25,000 is proposed to be utilized as follows :—

Reserve balance as required by the Municipal Act.....	Rs.	1,00,000
To meet the deficit in 1895-96 between the Revenue and the Expenditure.....	„	6,00,000
To keep invested as surplus balance to meet similar deficits in 1896-97 and subsequent years.	„	11,25,000

REVENUE FOR THE YEAR.

General Tax.—An increase of Rs. 37,647 is anticipated from this source, owing to increased and new assessments on buildings in the city owned by rate-payers and Government.

Similarly, an increase of Rs. 2,353 is estimated under the ½ per cent. Fire Tax.

The relative proportions contributed by Government, the Port Trust and ordinary tax-payers in respect of the General Tax and the additional Fire Tax for the ensuing and current years are as follow :—

	1894-95.	1895-96.
General Tax.	Rs.	Rs.
Ordinary Rate-payers	14,67,917	15,00,858
Government	96,767	1,01,473
Port Trust	1,53,904	1,53,904
	17,18,588	17,56,235
Fire Tax.		
Ordinary Rate-payers	91,745	93,804
Government	6,048	6,342
Port Trust	9,619	9,619
	1,07,412	1,09,765
	18,26,000	18,66,000

Under Wheel Tax and Tolls an increase of Rs. 2,250 is estimated to be obtained from private and public conveyances.

In view of the large opening balance it is proposed to abolish the grain, flour, and firewood duties. This will cause a decrease of Rs. 1,74,000 on the estimated income from Town Duties. The revenue from this source has, therefore, been estimated at Rs. 6 lakhs.

A small net increase of Rs. 450 is estimated under Licenses.

The Halalkhor Tax is estimated to yield Rs. 32,100 more than the estimate for the current year owing to increased and new assessments.

An increase of Rs. 20,000 is anticipated from Water Tax, partly owing to increased valuations of properties and partly to larger consumption of water through meters.

A net decrease of Rs. 16,900 is estimated under Markets and Miscellaneous Receipts and Fees and Public Gardens. But, owing to larger estimated interest, realizations on the Sinking and Insurance, &c., Funds, a net increase of Rs. 6,000 is expected under returns from Property and Miscellaneous.

The total revenue is estimated at Rs. 60,01,300, or Rs. 73,200 less than for the current year.

After discussion, the Committee framed the estimates of Income for 1895-96 as follows :—

General Tax at 8 per cent. (including contributions of Rs. 1,01,473, from Government and Rs. 1,53,904 from Port Trust)	Rs.	17,56,235
(*The estimate for the current year is Rs.* 17,18,588.)		
Additional Tax under Section 140, (*c*) of the Municipal Act 3 of 1888 for Fire Brigade charges, at ½ per cent., including Rs. 9,619 from Port Trust and Rs. 6,342 from Government at	Rs.	1,09,765

(*The estimate for the current year is Rs.* 1,07,412.).

Wheel Tax and Tools as per Section 180 and Schedule(J)* of the Municipal Act, including toll of 2 annas, as per Section 190, per vehicle to be levied on Vehicles entering the city from Salsette which are not liable to the Tax leviable under Section 180... 3,50,000

* SCHEDULE—*See Section* 180.

Description of Vehicle or Animals.	Maximum amount of tax per quarter. Rs. a. p.
Each four-wheeled vehicle, drawn or impelled by horses, ponies, mules, donkeys, bullocks, or machinery.....	5 0 0
Each two-wheeled vehicle, drawn or impelled by horses, ponies, mules, donkeys, bullocks, or machinery.....	3 0 0
Each vehicle, drawn or impelled otherwise than by horses, ponies, mules, donkeys, bullocks, or machinery.....	2 0 0
Each horse, pony, or mule, of a height of 12 hands or upwards	6 0 0
Each horse, pony, or mule, of a height of less than 12 hands	2 0 0
Each bullock or buffalo kept for draft or pack purposes.....	1 0 0
Each donkey kept for draft or pack purposes or for riding	1 0 0

(*The estimate for the current year is* 3,45,850.)

Town Duties at the following rates :—

	Rs.	a.	p.
Grain of all sorts, per candy	0	2	0
Flour of all sorts, 75 per cent. of the rate at the time being levied on the grain from which the flour is prepared.			
Wines and spirits, per imperial gallon	0	4	0
Beer, per imperial gallon	0	0	6
Sugar, Molasses and Goor, per cwt. ...	0	8	0
Ghee, per Bombay maund	0	8	0
Timber, excluding Railway sleepers, 2½ per cent. on market value.			
Firewood, per candy.....	0	1	0

Rs. 7,87,000

(*The estimate for the current year is* Rs. 7,74,000.)

Licenses for dangerous and offensive trades.....Rs. 60,000

(*The estimate for the current year is* Rs. 50,000.)

Streets and Buildings (Licenses to Surveyors and Plumbers) ..... Rs. 3,600

(*The estimate for the current year is* Rs. 2,900.)

Land Conveyance, Music Licenses, &c., issued by the Commissioner of Police .....Rs. *24,750

* Land Conveyance Licenses ..... Rs. 13,000
Music Licenses ..... „ 9,800
Sundry..... „ 1,950
24,750

(*The estimate for the current year is Rs.* 28,000.)

Receipts from Government under the terms of Bombay Act V of 1878 in lieu of Liquor Licenses .....Rs. 1,43,750

(*The estimate for the current year is the same.*)

Receipts from Government for the Municipal duty on Tobacco under Act IV of 1857 .....Rs. 1,87,000

(*The estimate for the current year is the same.*)

Halalkhor Tax at 3 per cent. and as charged for special service .....Rs. 6,32,100

(*The estimate for the current year is Rs.* 6,00,000.)

Water Tax at 4 per cent. and at special rates and including charges for water supplied for Municipal purposes .....Rs. 13,20,000

(*The estimate for the current year is Rs.* 13,00,000.)

Market Receipts .....Rs. 3,70,000

(*The estimate for the current year is Rs.* 3,65,600.)

Public Gardens.....Rs. 6,600

(*The estimate for the current year is Rs.* 7,000.)

Tramway Rent.....Rs. 42,000

(*The estimate for the current year is Rs.* 38,000.)

Miscellaneous Fines.....Rs. 10,000

(*The estimate for the current year is Rs.* 8,000.)

Miscellaneous Receipts .....Rs. *1,25,000

(*The estimate for the current year is the same.*)

Miscellaneous fees .....Rs. †45,000

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* Rent of Dhobiwada and Shops ..... Rs. 17,000
„ Chawls ..... „ 15,000
„ Milch Cattle Stables ..... „ 15,970
„ Lands, Tanks, &c. ..... „ 30,000
„ Police and Fire Brigade quarters ..... „ 21,332
Sundry Receipts ..... „ 25,698

Rs. 1,25,000

† *Health Department Fees based on past three years' actuals.*

Removing and skinning dead animals ... ... Rs. 15,000
Grave digging... ... ... „ 3,500
Sundry Fees ... ... „ 200

Rs. 18,700

Engineer's Department.

Building Fees (galleries, rewas, scaffolding and weather frames) ... ... Rs. 11,000
Opening roads and footpaths for cleaning drains and laying water pipes ... ... „ 4,200
Occupying public roads ... ... „ 2,500
Sundry Fees ... ... „ 2,100

19,800

Assessment and Collection Department.

Notice, Warrant, Battakie, and Sundry Fees ... ... Rs. 6,500

Rs. 45,000

(*The estimate for the current year is Rs.* 50,000.)		
Miscellaneous savings	Rs.	3,000
(*The estimate for the current year is the same.*)		
Contributions from Municipal servants towards pension and fund	Rs.	16,000
(*The estimate for the current year is Rs.* 15,800.)		
Interest and profit on Investments of Surplus Loan and other balances	Rs.	1,50,000
(*The estimate for the current year is the same.*)		
Interest on Sinking and Insurance, &c., Funds Investments	Rs.	77,500
(*The estimate for the current year is Rs.* 54,600.)		
Opening Cash Balance	Rs.	18,25,000
(*The estimate for the current year is Rs.* 19,50,000.)		
Total estimate of Income for the year 1894-95—Rs. 62,19,300 and including the opening balance of Rs. 18,25,000 at	Rs.	80,44,300
(*The estimate for the current year is Rs.* 80,24,500.)		

At the conclusion of their business, the following members of the Committee, on the request of the Acting Commissioner, proceeded to Colaba to inspect the works now in course of construction in connection with the Shone system of drainage :—

G. W. Roughton, Esq., Chairman ; Bhalchandra K. Bhatawadekar, Esq. ; Cowasjee Hormasjee, Esq. ; the Hon'ble Mr. Javerilal U. Yajnik ; K. M. Shroff, Esq. ; Accacio G. Viegas, Esq.

Surgeon-Lt-Col. T. S. Weir, Acting Commissioner ; the Executive Engineer ; the Acting Health Officer ; the Drainage Engineer on Special Duty ; and the Drainage Engineer were also present.

BOMBAY, 21*st November* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, Esq., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, Esq., L.M. ; COWASJEE HORMUSJEE, Esq., G.G.M.C. ; THE HON'BLE MR. FAZULBHOY VISRAM ; HURKISONDAS NURROTUMDAS, Esq. ; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK ; K. M. SHROFF, Esq. ; S. REBSCH, Esq., ASSO. M.I.C.E. ; ACCACIO G. VIEGAS, Esq., L.M. & S. ; R. H. VINCENT, Esq., C.I.E. ; CAPTAIN W. P. WALSHE ; H. A. ACWORTH, Esq., I.C.S., Commissioner ; the Acting CHIEF ACCOUNTANT ; and the SECRETARY.

The minutes of the meeting, held on the 14th instant, were signed.

Considered letter No. 19341, dated 19th November 1894, to the Secretary to Government, General Department, as under :—

SIR,—We have the honour to report that we have this day, before office hours, respectively, delivered over and received charge of the office of the Municipal Commissioner for the City of Bombay.—We have, &c.,

T. S. WEIR.
H. A. ACWORTH.

No. 19342 OF 19*th November* 1894.

Copy forwarded to the Municipal Secretary for the information of the Standing Committee.

H. A. ACWORTH, Commissioner.

Resolved : "That the following be *recorded* :—Memorandum to the Secretary, from the Commissioner, No. 19342, dated 19th instant, reporting that he that day, before office hours, received charge from Surgeon-Lieutenant-Colonel T. S. Weir of the office of Municipal Commissioner."

No. 9151.

The consideration of the question of the sealing of the contract with Messrs. Teju Kaya and Co., for the supply of 1,500 brass of road metal was postponed until the next meeting.

The consideration of the following was also deferred until the next meeting :—Memorandum Nos. 19293 and 19553, dated 17th and 21st instant, on the subject of the supply of road metal by Mr. Sorabji N. Moosa, the present contractor.

The seal of the Corporation was affixed to deeds of contract (1) with Messrs. C. J. Khambatta & Co., for the supply of 200 tons of Great Western Navigation Cardiff coal, and 200 tons of Davison's West Hartley coal ; (2) with Mr. Muncherji Kavasji Gazdar, for the work of making certain additions and alterations to the Fire Brigade Station at Chinchpokli ; and (3) with the Palej Lal Gin & Press Co., for the supply of 3,000 casks of Portland cement.

Resolved : "That, as applied for by the Commissioner, in his memorandum No. 19462, dated 19th instant, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 9155.

No. 9156. *Resolved* : " That, as applied for by the Acting Commissioner, in his memoranda to the Secretary Nos. 18873 and 18968, dated 13th instant, sanction be given, under section 351 (2) of the Municipal Act, to the removal of the following structures built without permission :—

Names of owners.	Where.
Mr. Abdul Hoosain Heptula	Building at No. 15, Northbrook Street.
„ Cowasji Nowroji Gheewala.....	Sheds at Middle Colaba.

No. 9157. *Resolved* : " That, as applied for by the Acting Commissioner, in his letter to the Secretary, No. 19263, dated 17th instant, sanction be given (1)to the acceptance of the tender of Messrs. Bibra Hirjee & Co., the lowest of the 4 tenders received, for the construction of storm-water drain with manholes and water gullies in Cruickshank Road at schedule rates, aggregating Rs. 18,340-14-0 ; (2) to the road repairs in connection with the contract being performed by the Road Department at a cost of Rs. 1,836, *plus* establishment and contingencies for the works, Rs 2,461-2-0, total Rs. 22,638, to be met from the grant of Rs. 27,073."

No. 9158. *Resolved* : " That, subject to the approval of the Corporation, under the terms of section 133 (2) of the Municipal Act, sanction be given to the transfer of Rs. 1,434-2-4, from savings on the grant for the maintenance of steam engine for gully flushing, to provide for the following establishment for working the manual flushing engine, from 1st March last, to 31st March 1895 :—

10 Pumpmen at	Rs.	9 each.
2 Hosemen do.	„	9 „
1 Sub-Inspector.....	„	20
Total per mensem	„	128

No. 9159. *Resolved* : " That the consideration of the following be postponed until the next meeting :—Letter No. 18998, dated 14th instant, from the Acting Commissioner to the Secretary, forwarding an estimate of Rs. 25,288, for converting into an open drain with paved bottom and sides, the

ditches in Elphinstone Road which the Standing Committee inspected on the 11th idem. Stating that the construction of the open drain will give a flow to the sewage and carry it beyond the ditch between chawls where it now settles."

No. 9160. It was agreed that the consideration of the following items be deferred until the Commissioner reports thereon: "Letter No. 19271, dated 17th instant, from the Acting Commissioner to the Secretary, resubmitting schemes A and B for house connections in the Supari Bag portion of Parel. The cost of scheme "A" amounts to Rs. 32,757, while that of scheme B is Rs. 28,751. Recommending for sanction the latter scheme to be met out of saving in the grant for Parel Government House Gate Road Drainage Works."

"Letters from the Commissioner to the Secretary, requesting sanction to the continuance of the employment of the establishment provided in the Loan Works Budget for 1894-95 up to the end of September 1895, in connection with the construction of the Bori Bunder bigaries' chawl. The amount to be met from the contingent provision for the work."

No. 9161. *Resolved*: "That, as applied for by the Acting Commissioner, in his letter No. 18854, dated 13th instant, sanction be given, under section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. Hormusji Jamasji Mistri and Pherozeshah Dhunjibhoy Patel, for the work of constructing the F and G Ward stables for the Health Department at Dadar, whereby the period for the completion of the work shall be extended up to 18th December 1894."

No. 9162. *Resolved*: "That the following be *recorded*:—Letter No. 19257, dated 17th instant, from the Commissioner, reporting with reference to the Standing Committee's Resolution No. 8008, dated 24th ultimo, that as Messrs. Cursetji & Sons, Kirkee, were unable to supply bullocks of 12·2 to 13·1½ hands under Rs. 200 per pair for the Market Department,

the Superintendent of Markets has been authorised to purchase the bullocks at that price, the cost to be met from the budget provision for the same."

Read letter, from the Acting Commissioner to the Secretary, No. 19318, dated 17th instant, as under:—

SIR,—In reference to the Corporation Resolution No. 2882 of the 14th June last, I have the honour to state that the Special Drainage Engineer reports that not being able to find suitable men to fill up all the appointments he has been working with the following establishment :—

1 Surveyor at Rs. 70, 1 ditto Rs. 60, 6 Lascars at Rs. 60. The total amount spent to the end of October out of Rs. 1,440 sanctioned by the Corporation being Rs. 587-0-6, there is a balance of Rs. 852-15-6 in the grant. I have, therefore, to request the sanction of the Standing Committee and the Corporation to the continuance of the present establishment to the end of February 1895, or until the completion of the work if that be earlier. The charges for the extended period will be met from the grant already sanctioned.—I have, &c.,

T. S. WEIR, Acting Commissioner.

Resolved: "That, with reference to letter No. 19318, dated 17th instant, from the Acting Commissioner to the Secretary, sanction be given to the continuance of the employment of the following staff up to the end of February 1895, for tracing the plans for the drainage of Parel, Mazagon and Old Race Course, and for taking levels, &c., making surveys, plans, sections, and estimates, for the Malabar Hill, Khamballa Hill and Elphinstone Estate districts.

No 9163.

"The cost to be met from the balance of the grant sanctioned in the Corporation's Resolution No. 2882 of 14th June last.—"

1	Surveyor	on Rs. 70	per mensem.
1	"	" 60	"
6	Lascars	" 60	"

Considered letter No. 19322, dated 17th instant, from the Acting Commissioner to the Secretary, as under :—

SIR,—In reference to the Corporation Resolution No. 4874, of the 2nd August last, I have the honour to report that the estimate prepared by the Executive Engineer for the proposed additions to the quarters of the Police Inspector at Mahim, amounts to Rs. 1,294. The estimate provides the same accommodation as that estimated for by the Executive Engineer, Presidency,

The estimate was forwarded to Government and they have accepted the proposal. The sum sanctioned by the Corporation is Rs. 1,102. I have, therefore, to request the sanction of the Standing Committee and the Corporation to meet the difference of Rs. 192, from the Surplus Cash Balance, the state of the Surplus Cash Balance is as follows :—

Surplus ascertained after the closing of accounts for 1893-94		Rs. 1,80,786 0 0
Out of which expenditure (excluding temporary advances to be adjusted hereafter) has been sanctioned to the extent of.....	Rs. 1,30,939 10 9	
Expenditure recommended for sanction.....	Rs. 31,078 0 0	
		Rs. 1,62,017 10 9
Balance.....		Rs. 18,768 5 3

I have, &c.,
T. S. WEIR, Acting Commissioner.

No. 9164. *Resolved* : "That letter No. 19322, dated 17th instant, from the Acting Commissioner to the Secretary, be forwarded to the Corporation, with reference to their resolution No. 4874, of the 2nd August last, and with the recommendation that sanction be given to the additional grant of Rs. 192, from Surplus Cash Balance, to meet the cost of certain additions to the Police Quarters at Mahim."

No. 9165. *Resolved* : "That the following be *recorded* :—Letter No. 19369, dated 19th instant, from the Acting Commissioner to the Secretary, reporting that he has authorized the Water Engineer to purchase 140 fire hydrant-spindles from Glenfield Company, Kilmarnock, at a cost not exceeding Rs. 548 in all."

The consideration of the following was postponed until the next Meeting :—Memorandum No. 18885, dated 13th instant, from the Acting Commissioner, requesting sanction, under section 381 of the Municipal Act, to a notice in writing being served on Mr. Kushal Nanji, calling upon him to clean the well attached to premises No. 219, Tardeo Road, as the water therein is reported to be foul and as causing an offensive smell.

Considered the following :—

STATEMENT showing set-backs of properties, sanctioned by the Municipal Commissioner, under section 298 of the Municipal Act, during the month of October 1894 :—

Serial No.	Ward.	Property No.	Locality.	Name of the person called upon to set-back the property.	Number of square yards of land.
1	B	581—589	Memonwada Road	Mr. Jaffer Mooroji	4·26
2	E	.....	Mustan Tank Cross Lane...	Bai Yamnabai	8·22
3	E	.....	Kamatipura 13th Street ...	Mr. Tribhowandas Jadavji..	5·56
4	D	.....	Forjett Street	Mr. Adamji Peerbhoy	388·56
5	B	12—16	Hussenkhan Khalifa Street.	Mr. Khoja Jaffer Rahimtula...	0·66
6	C	19—25	Bhandari Street	Mr. Rangu Laksuman	21·44
7	E	.....	Kamatipura 14th Street ...	Mr. Hormusjee Ratanji Vazir	4·56
8	C	.....	Abdul Rahiman Street ...	Mr. Mulla Shaik Bhai Esufbhai	15·03
9	C	.....	Shamset Street		16·96

No. 15892 OF 1894-95.

BOMBAY, *8th November* 1894.

Submitted to the Municipal Commissioner for information with reference to his No. 10571, of 6th August 1894.

M. C. MURZBAN, Executive Engineer.

No. 18789 OF *12th November* 1894.

Forwarded for the information of the Standing Committee.

T. S. WEIR, Acting Commissioner.

No. 9167.

Resolved : "That the following be *recorded* :—Memorandum No. 18789, dated 12th instant, from the Acting Commissioner, forwarding statement of set-backs sanctioned under section 298 of the Municipal Act, during the month of October 1894.

Considered the following :—

Statement of Houses or Portions of Houses which fell during the month of October 1894.

No.	Ward.	Street No.	Locality.	Names of Owners.	Description of Building.	Age of Building or date of erection (if known).	Date of fall.	Cause of fall.	Part fallen.	Casualties.		Estimated loss.	Whether or not action taken by the Municipality.	Whether or not warning given to the parties.	Remarks.
										Persons injured.	Persons killed.				
1	D	22-26	Trimbak Parashram Street.	Bai Rambai, widow of Govind Bhimji.	Chawl (two storied.)	About 15 years old.	6-10-94.	Materials of the Chawl being weak and unable to withstand heavy rain.	Half of the top floor front wall.	Nil.	Nil.	About Rs. 50	Nil.	Nil.	
2	E	145-147	Undria Street.	Bai Chandbai, wife of Hirji Chotoo.	Dwelling house.	About 20 years old.	24-10-94.	Weak joints in purlines.	A portion of the west side roof.	Nil.	Nil.	About Rs. 100	Nil.	...	Notice No. $\frac{139}{354}$ was served on the owner on 28th October 1894.

No. 15893 of 1894-95. BOMBAY, *8th November* 1894.

Submitted to the Municipal Commissioner for information. M. C. MURZBAN, Executive Engineer.

No. 18880 of 13th November 1894.

Forwarded to the Standing Committee for information. T. S. WEIR, Acting Commissioner.

Resolved : "That the following be *recorded* :—Memo-
No. 9168. randum No. 18880, dated 13th instant, from the Acting Commissioner to the Secretary, forwarding statement of houses or portions of houses which fell during the month of October 1894."

It was agreed that the consideration of the following be postponed until the next meeting :—Letter No. 18855, dated 13th instant, from the Acting Commissioner to the Secretary, requesting sanction to the erection of 15 temporary sheds at different places on the Tansa Line, to enable the work-men to shelter themselves during the night. The cost, Rs. 750, to be met from Surplus Cash Balance.

Read letter No. 19008, dated 16th instant, from the Acting Commissioner to the Secretary, as under :—

SIR,—In reference to the Standing Committee Resolution No. 5951 of the 29th August last, I have the honor to report that the works at the Bhandarwada Reservoir have been commenced and are in progress.

In regard to the second para. of the Resolution, I beg to submit that the Progress Report is not a document intended to convey all the details of expenditure.

The apportionment made for the work of the Fort Fire Brigade Station out of the loan of 4½ lakhs does not include the cost of the ground, and it is not, therefore, shown in the Progress Report.

The land on which the Fort Fire Brigade Station is built was the surplus land available for sale out of the properties acquired in 1885-86 and 1886-87 for the improvement of Gunbow Street and paid for out of the special grant sanctioned for that improvement under the Corporation's Resolutions Nos. 152 and 991 of the 5th May 1885 and 13th October 1886, respectively.—I have, &c.,

T. S. WEIR, Acting Commissioner.

Resolved : "That the following be *recorded* :—Letter
No. 9170. No. 19008, dated 16th instant, from the Acting Commissioner to the Secretary, reporting, with reference to the Resolution of the Standing Committee, No. 5951, dated 29th August last, regarding the progress of certain works referred to in the Progress Report of June last.

2. "That the Commissioner be asked to show in future Reports the value of land on which buildings in progress stand."

Resolved: "That, as applied for by the Acting Commissioner, in his letter to the Secretary, No. 19017, dated 16th instant, sanction be given, subject to the consent of the persons interested, to the conversion into 3½ per cent. Government paper of 4 per cent. Government Promissory note for Rs. 1,000 of the loan of 1865 deposited by Messrs. Richardson & Cruddas in connection with their contract for the supply of stoneware pipes for the Parel sewerage works."

No. 9171.

Considered letter No. 15915, dated 9th instant, to the Commissioner as follows :—

SIR,—With reference to your memo. No. 16720, of 19th ultimo, I have the honor to submit a letter, dated 8th current, from Messrs. Meherji Johnstone & Co., submitting an offer of Rs. 4,250 only, obtained at a fresh sale of the Bhuleshwar Market held on the 7th instant.—I have, &c.,

M. C. MURZBAN, Executive Engineer.

No. 18862 OF 13*th November* 1894.

Copy forwarded to the Municipal Secretary, in reference to the Standing Committee's Resolution No. 7382 of the 10th ultimo.

T. S. WEIR, Acting Commissioner.

Resolved: "That, with reference to the Acting Commissioner's memorandum to the Secretary, No. 18862, dated 13th instant, sanction be given to the sale, at Rs. 4,250, of the materials of the old Bhuleshwar Market to Messrs. M. Hassum & Co."

No. 9172.

Read letter No. 19395, dated 19th instant, from the Acting Commissioner to the Secretary, as under :—

SIR,—I have the honour to state that the Executive Engineer reports that, up to the end of February 1895, he will require about 470 tons of coal for the Love Grove Pumping Station, taking the average consumption of coal at 7½ tons per day. Calculating the rate of coal at, say, Rs. 19 per ton, the cost of 470 tons will amount to Rs. 8,930. The grant for coal provided in the

current year's Budget is Rs. 46,750, out of which Rs. 46,083-12-10 have been spent, leaving a balance of Rs. 166-3-2. Deducting this balance from the cost of 470 tons (Rs. 8,930—666-3-2) it will be observed that Rs. 8,263-12-10, or in round figures Rs. 8,264 will be required. The following are the reasons reported to me for the present application to supplement the grant. (1) The average consumption of coal from March to June was 7·29 tons, and from July to September 9 tons against the Budget estimate of 7½ tons a day, it having been found necessary to work three engines several times during the rains to keep the sewage low. (2) The average rate per ton of coal has been Rs. 18-4-0 against the Budget estimate of Rs. 17 per ton, the increase in the rate being principally due to the fall in exchange. The Executive Engineer forwards the accompanying comparative statement marked $\frac{S\ C.}{13\text{-}10\text{-}94}$ prepared by the Drainage Engineer, and reports that the new pumps are working more economically and efficiently than the old ones, and that whilst the quantity of sewage daily pumped into the sea is fully 32 per cent. more and the depth of sewage maintained in the sewer is about 51·8 per cent. less by the new pumps, the reduction in the coal consumption is about 46·3 per cent. He further adds that it would be possible to make a still further saving in the coal consumption, and to abate the smoke nuisance when the mechanical stokers which are provided for in the budget for 1895-96 are sanctioned and put up. Under the circumstances of the case I have to request the sanction of the Standing Committee and the Corporation to the expenditure of Rs. 8,264 out of the Surplus Cash Balance. The state of the Surplus Cash Balance is as follows:—

Surplus ascertained after the closing of accounts for 1893-94.....	Rs. 1,80,786 0 0	
Out of which expenditure (excluding temporary advances to be adjusted hereafter) has been sanctioned to the extent of.....	Rs. 1,30,939 10 9	
Expenditure recommended for sanction.....	Rs. 22,814 0 0	
		Rs. 1,53,753 10 9
Balance available.....		Rs. 27,032 5 3

I have, &c.,

H. A. ACWORTH, Commissioner.

COMPARATIVE STATEMENT S. C. 31-10-94.

Engines.	Period.	Average Daily discharge. Gallons.	Average Daily height of sewage. Feet.	Average Daily Coal Consumption. Tons.	Cwts.	qrs.	lbs.	
Old.....	1st March * to June 19th 1893 (both inclusive.)	23,306,240	11·27	15	2	1	13	* The remaining days from June 20th to September 30th, 1893, are not taken into consideration as the new engines were working during that period..
		More. 32 per cent.	Less 51·8 per cent.	Less 46·3 per cent.				
New.....	1st March to 30th September 1894 (both days inclusive.)	30,796,759	5·43	8	2	0	22	

C. C. JAMES, A.M.I.C.E.,
Drainage Engineer.

Resolved: "That letter No. 19395, dated 19th instant, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the additional grant of Rs. 8,264, from Surplus Cash Balance, to provide for the purchase of coal for Love Grove Pumping Station to the end of the current year."

No. 9173.

The consideration of the following was postponed until the next meeting:—Letter, dated 19th instant, from Messrs. Payne, Gilbert and Sayani, on behalf of their client, Mr. Dossabhoy Sorabji, regarding the demolition of premises situated at 1st Pinjrapol Street.

Resolved: "That the report of the Sub-Committee on the question of fixing exchange regarding works of supplies which are contracted for in sterling be printed and circulated and brought on for consideration next week."

No. 9175.

Resolved: "That the following be *recorded*:—Memorandum No. 18892, dated 13th instant, from the Acting Commissioner to the Secretary, *reporting*, with reference to the Committee's Resolution *No. 5620*, dated 9th January 1889, the transfer, on the 2nd instant, of (1) 5 per cent. Municipal Debentures for Rs. 4,500, from the Surplus Cash Deposit Account to the Worn-out Main Renewal Fund Deposit Account; (2) 5 per cent. Municipal Debentures for Rs. 500 from ditto to the net Premia, &c., on different Municipal loans deposit account."*

No. 9176.

Resolved: "That the following be laid on the table:—Letter, dated 19th instant, from Messrs. Ardaseer Framjee Moos and Nanabhai R.

No. 9177.

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* The Acting Chief Accountant reports to the Acting Commissioner that the balance standing to the credit of the above deposit account, after effecting the above transfer, is as under:—

In 5 per cent. Municipal Debentures for.....Rs.	18,15,500	Rs. 18,15,500	0 0
„ 4 „ „ „ ..... „	84,000	„ 84,000	0 0
„ 4 „ Government Paper for ..... „	2,89,500	„ 3,00,607	13 0
		Rs. 22,00,107	13 0
In cash		„ 41,822	9 0
		Rs. 22,41,930	6 0

Ranina, stating that they have audited the weekly statement of receipts and disbursements at the end of each week, for the month of October last and compared them with the general and subsidiary ledgers and journals and found them correct. Forwarding the usual summary and statement of their scrutiny of accounts."

No. 9178. *Resolved* : "That memorandum No. 19348, dated 17th instant, from the Acting Commissioner, be forwarded to the Corporation, with reference to petition, dated 24th ultimo, from Mr. David Solomon, complaining of the way in which the temporary drainage works are being carried on at Paidhoni."

No. 9179. *Resolved* : "That the following be *recorded*, with the request that the Health Officer may be asked by the Commissioner to supply fresh analyses.

"Memorandum No. 18944, dated 13th instant, from the Acting Commissioner, forwarding analyses of Tulsi, Vehar and Tansa water as under" :—

Sample No. I. Unfiltered Tulsi water taken from the inlet well of the Malabar Hill Reservoir, at 7 a. m., on 5th November 1894.

	Parts per million.
Free Ammonia	·009
Albuminoid Ammonia	·6

Sample No. II. Sample of strained Tansa water taken from the gauging basin at Ghatkoper Syphon head on the 5th November 1894.

	Parts per million.
Free Ammonia	·16
Albuminoid Ammonia	·4

Sample No. III. Filtered Vehar water taken from the filtered water channel of the Bhandarwada Reservoir, on 5th November 1894.

	Parts per million.
Free Ammonia	·04
Albuminoid Ammonia	·06

Sample No. IV. Unfiltered Vehar water taken from the inlet channel of the Bhandarwada Reservoir, 5th Novemter 1894.

	Parts per million.
Free Ammonia	·02
Albuminoid Ammonia	·4

Sample No. V. Filtered Tulsi water taken from the syphon well No. I. Filter of the Malabar Hill Reservoir, on the 5th November 1894.

	Parts per million.
Free Ammonia	·006
Albuminoid Ammonia	·11

The following statement* was laid on the table:—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 18th November 1894.

The consideration of the Budget Estimates for 1895-96 was resumed.

The Acting Commissioner in his introduction writes:—

EXPENDITURE.

"The increases in Establishment have been explained in the schedule statements printed before each detailed Budget statement. The increases and decreases in other items have also been fully explained in the marginal notes opposite the respective items entered in the detailed statements.

"Last year's proposal to double the strength of the Inspectorial Staff of the Licensing Department is renewed. This increase is required to increase efficiency. The conveyance allowance of the Superintendent of Licenses, Rs. 90, has been added to his pay of Rs. 350, thus consolidating the pay of the appointment at Rs. 440 per mensem.

"The establishment required for the prevention of frauds in the matter of claims for refunds of Town duties, as recommended to the Corporation for sanction by the Standing Committee in their Resolution No. 996, dated 25th April 1894, has been included.

"In four cases an increase has been proposed in the pay of superior officers, *viz.*, the Executive Engineer, the Water Engineer, the Chief of the Fire Brigade, and the Municipal Medical Examiner. The increases in the first three cases are renewals of the proposals recommended last year. In the last case, *viz.*, that of the Municipal Medical Examiner, it has been found that the duties of the appointment are greater than were anticipated when the appointment was first created, and the Commissioner regards the increase of Rs. 50 per mensem as no more than a fair compensation for the work.

* *See* Appendix B.

"The large increase of work entailed in the mechanical branch of the Engineering Department, by the new air-compressor machinery and ejectors at Colaba, the new Incinerators, &c., renders it necessary to appoint an officer to look after the Love Grove Pumping Station, the Workshops, the machinery at Colaba, the road steam-rollers, the hydraulic lift in the Municipal offices, and the electric lighting of the markets and the offices, and accordingly provision for an Assistant Engineer, Mechanical Branch, on a salary of Rs. 550 per mensem, has been made. The extra cost will, however, be only Rs. 125 per month, as, consequent on this new appointment, a saving of Rs. 375 will be effected by a re-arrangement of the salaries of the Love Grove Pumping Station staff and a saving of Rs. 50 in the Workshops. A conveyance allowance of Rs. 50 per mensem has been provided for the Architectural Surveyor, as he has to supervise the construction and repairs of buildings throughout the city.

"Provision has been made for working the new pumping station, Colaba, which is expected to be ready on the 1st May 1895, and also for working the Garlick and Silchar Incinerators and for flushing gullies.

"The net increase in the total expenditure amounts to Rs. 3,39,723. Of this increase Rs. 2,09,808 are due to provision having been made under the ordinary heads of service, principally General Office, Licensing and Revenue and Refund Audit Office Establishments, Fire Brigade, Victoria Gardens, the Engineer's Department, including Drainage and Water Works, Conservancy and Markets. The other principal items of increases are: (1st) Rs. 6,775 under Municipal Debt; (2nd) Rs. 7,674 under Pensions, gratuities and compassionate allowances; and (3rd) Rs. 1,24,466 under Special Extraordinary Works and Investment of Interest realised on Sinking, &c., funds investments.

"It may also be pointed out that there are decreases of (1) Rs. 19,220 under Town Duty collections, and (2) Rs. 9,000 under election expenses.

"The grant for the Police has been kept at the same figure as that for 1894-95, as the details called for from

Government for the estimate for 1895-96 had not been received up to date.

"The total expenditure for the year is estimated at Rs. 65,96,934.

CLOSING BALANCE.

"The estimated closing balance is Rs 12,29,366,* or over Rs. 11¼ lakhs above the minimum required by law as detailed below :—

Opening Balance	Rs.	18,25,000
Income	,,	60,01,300
	Rs.	78,26,300
Less—Expenditure	,,	65,96,934
Closing Balance	Rs.	12,29,366

The Committee considered the Estimates in detail.

Corporation and Standing Committee's Establishment.

(*Detailed Statement No.* 1.)

On the application of the Secretary, the salaries of the second, third and fourth clerks were increased from Rs. 65 to 70, Rs. 60 to 65 and from Rs. 50 to Rs. 65 per mensem.

The estimates for this establishment were passed at Rs. 56,940.

(*The grant for the current year is Rs.* 56,848.)

Municipal Commissioner's Personal Office Establishment.

(*Detailed Statement No.* 2.)

On the item of Rs. 36,000, salary of the Commissioner, Mr. Acworth remarked that this sum could be reduced to Rs. 31,000 as he will not hold the appointment for more than 2 months of the new year, on account of proceeding home on furlough, and as the next holder of the office cannot draw more than Rs. 2,500 per mensem until after three years' service.

Thereupon the Committee reduced the grant to Rs. 31,000, and passed the total grant for the Commis-

* The whole of this surplus balance is proposed to be kept invested.

sioner's Personal Establishment at Rs. 55,428 instead of Rs. 60,428 as originally entered.

The grant for the current year is Rs. 60,780.

General Office Establishment.

On the estimate of Rs. 245 (being pay Rs. 200 and conveyance allowance Rs. 45) per mensem for the Medical Examiner (an increase of Rs. 50 per mensem) Mr. Viegas moved that the grant be passed at Rs. 195 inclusive.

This proposal was not seconded, and it was agreed, (with one *dissentient*) that the pay of the Examiner be entered at Rs. 200 per mensem with Rs. 45 conveyance allowance.

On the suggestion of Mr. Shroff, the Commissioner agreeing thereto, the grant for repairs and maintenance of the office building was reduced from Rs. 3,000 to Rs. 1,000.

The total grant for detailed statement No. 3 was passed at Rs. 32,992.

The grant for the current year is Rs. 29,116.

The increases are—

Repairs to Office Building, &c.....	Rs.	1,000
Hydraulic Lift Service	„	1,335
Electric Lighting	„	1,800
		4,135
Or deducting decreases.....	„	259
	„	3,876

Account and Expenditure Audit Establishment. Detailed Statement No. 4.

The grant for this establishment was passed at Rs. 57,096.

(*The grant for the current years is Rs.* 57,448.)

The decrease of Rs. 352 is on account of clothing for havildar and peons, which charge only occurs once in two years.

Assessment and Collection Department. (*Detailed Statement No.* 5.)

The grant for commission and contingencies for Town Duties Collection was increased from Rs. 38,500

to Rs. 50,000 to provide for the net collection of Rs. 7,87,000 instead of Rs. 6,00,000, entered by the Acting Commissioner.

The grant for Property and Wheel Tax Establishment was passed at Rs. 1,43,954.

(*The grant for the current year is Rs.* 1,44,498.)

Revenue and Refund Audit Establishment.

The estimate for the proposed establishment of auditors' clerks and peons (9 persons) for "Bunder Audit" and "Railway audit," at a cost of Rs. 5,364 per annum, was *struck out.*

The appointment of one havildar, at a cost of Rs. 168 per annum, was entered.

The grant for Revenue Refund Audit Establishment was passed at Rs. 24,216 (against Rs. 24,168 for the current year.)

Licensing Establishment.—The pay Rs. 350 and conveyance allowance Rs. 90 of the Superintendent of Licensing were entered at Rs. 440 consolidated, but the Committee struck out these figures, and entered the pay at Rs. 350, and the allowance of Rs. 90 as in the Budget for the current year.

Under the head of inspection and office Establishment it was proposed to provide in place of 2 inspectors on Rs. 150 pay and Rs. 30 allowance each, and 1 Sub-Inspector on Rs. 60, and 1 on Rs. 50; for 4 Inspectors, 1 on Rs. 175, 1 on Rs. 160, 1 on Rs. 140, and 1 on Rs. 125, with a conveyance allowance of Rs. 30 each; and 2 Sub-Inspectors on Rs. 60 and 2 on Rs. 50 each and four peons, or a total increase of 8 persons at an enhanced cost of Rs. 6,072 per annum.

The Standing Committee struck out this estimate and passed the grant as it stands for the current year, namely, 2 Inspectors on Rs. 150 each, with Rs. 30 allowance, 1 Sub-Inspector on Rs. 60 and 1 ditto on Rs. 50, and 3 peons at Rs. 10, and 4 at Rs. 8 each. The grant for the establishment was passed at a total of Rs. 27,188, as against the Rs. 33,260 originally entered.

(*The grant for the current year is Rs.* 27,256.)

The grand total for the Assessment and Collection Department was passed at Rs. 2,47,038.

(*The grant for the current year is Rs.* 2,55,322.)

The net decreases are on account of the commission on Town Duties Collection being reduced by Rs. 7,720.

Peons' clothing (Property and Wheel Tax establishment) not chargeable next year	Rs.	1,144	
Less—Increase on account of receipt stamps	,,	600	
			544
			Rs. 8,264
Licensing establishment, 2 peons' clothing.	Rs.	168	
Less—Increase under contingencies, &c.....	,,	100	
			68
		Total decreases...	Rs. 8,332
Deduct—			
Increase—			
Revenue and Refund Audit Office Establishment.....	Rs.	168	
Less—Decrease on account of peons' clothing	,,	120	
			48
		Net decrease...	Rs. 8,284

Fire Brigade (*Detailed Statement No.* 6.)

The pay of the Chief Officer was entered at Rs. 800 per mensem with Rs. 50 conveyance allowance.

Mr. Viegas proposed that the pay and allowance be entered as in the current year's Budget, Rs. 600 and Rs. 50.

Amendment moved by Mr. Vincent.

"That the pay and allowance of the Chief Officer be passed as entered in the Budget."

On a division, there were 5 votes *for* and 5 votes *against* the *amendment*, and the Chairman gave his vote against the *amendment*, which was *lost*.

The pay was, therefore, entered at Rs. 600, and the allowance at Rs. 50.

The total grant originally entered Rs. 1,23,426 was reduced to Rs. 1,22,826.

(*The grant for the current year is Rs.* 1,15,435.)

The increases are :—

Pension contribution payable to Government...	Rs.	41
Increment to foremen.....	„	300
Purchase of hose	„	8,000
	Rs.	8,341

Decrease—

Telephone connections.....	Rs.	2,200	
Less—Increase, as under rent.	Rs.	750	
Repairs	„	500	
	„		1,250
			950
Net increase...			7,391

Maintenance of Public Gardens (*Detailed Statement No.* 7.)

This estimate was passed, as entered, Rs. 61,234.

The grant for the current year is Rs. 57,994.

The increases of Rs. 3,500 are for water ..	Rs.	2,885
House allowance to Head-keeper.....	„	300
Stores, &c.	„	315
	Rs.	3,500
Less Decrease—Water	„	260
Total increase...	Rs.	3,240

Public Works (*Engineer's*) *Department* (*Detailed Statement No.* 8.)

Proposed by Mr. Cowasjee Hormusjee, seconded by Captain Walshe—

"That the pay of the Executive Engineer be entered at the full amount of Rs. 1,500 per mensem."

Amendment moved by Mr. Bhalchandra K. Bhatawadekar, seconded by the Hon'ble Mr. Javerilal U. Yajnik—

"That the pay of the Executive Engineer be entered at Rs. 1,250 a month as at present."

On a division the *amendment* was *lost*, and the amount was entered at Rs. 1,500.

On the question of the appointment of Assistant Engineer, Mechanical Branch, on a salary of Rs. 550 per

mensem, it was proposed by the Hon'ble Mr. Javerilal U. Yajnik, seconded by Mr. Bhalchandra K. Bhatawadekar—

"That the consideration of the proposed appointment of an Assistant Engineer, Mechanical Branch, be postponed until the completion of the Colaba sewerage works."

Amendment proposed by the Hon'ble Mr. Fazulbhoy Visram, seconded by Mr. Vincent—

"That, subject to the sanction of the Corporation, the appointment of an Assistant Engineer, Mechanical Branch, be entered on a salary of Rs. 500, with Rs. 50 conveyance allowance, but that provision be only made for ten months' salary and allowance, as the new sewerage works will not be completed by the commencement of the new financial year."

On a division the *Amendment* was *carried* as a substantive motion by 7 votes *against* 3 votes.

Surveyors' Establishment.—On the motion of the Hon'ble Mr. Javerilal U. Yajnik the provision of Rs. 200 pay and Rs. 50 allowance for a Chief Surveyor was struck out.

The item of Rs. 50 per mensem for conveyance allowance to the Architectural Surveyor was struck out, the pay of the appointment being entered at Rs. 250 a month as in the current years' budget.

Under the head of Workshops, the provision of Rs. 50 per mensem travelling allowance to the Superintendent was entered for two months only as the allowance is merged in the salary of the Assistant Engineer, Mechanical Branch.

The total grant for I—General supervision and miscellaneous duties, as above, was passed at Rs. 46,164.

"*The grant for the current year is Rs.* 40,326."

Workshops.—That the schedule of the appointments framed under section 79 of the Municipal Act, as already

sanctioned, be modified under section 79 (2) to allow of the addition of the following staff :—

1	Workman and artizan at	Rs.	1- 8	per day or Rs.	39 per mensem.
1	Do.	do.	1- 6	„ „	35-12 do.
1	Do.	do.	1- 4	„ „	32- 8 do.
1	Do.	do.	1- 2	„ „	29- 4 do.
1	Do.	do.	1- 0	„ „	26- 0 do.
1	Do.	do.	0-14	„ „	22-12 do.
2	Workmen & artizans at	Rs.	0- 8	each „ „	39- 0 do.
1	Workman & artizan at	„	0- 7	„ „	11- 6 do.
				Rs.	235-10 per mensem.
				or Rs.	2,827-8 per annum.

"That the Workshops charges (as detailed in pages 31 to 33 of the Budget) be passed at Rs. 1,13,200, less recoveries of a like amount to be made from Municipal Departments and private persons for work to be executed in the shops."

(*The grant for the current year is Rs.* 1,04,500 0 0)
The increase are—

Establishment as per schedule, including provision for travelling allowance to the Superintendent for two months	Rs.	2,327	8	0
Labour for extra work	„	1,072	8	0
Stores and water-supply.....	„	5,000	0	0
Repairs to Machinery, bungalow, buildings, &c.	„	100	0	0
Telephone connections	„	200	0	0
	Total Rs.	8,700	0	0

II.—*Drainage.*—The salaries of the four Engineers, Love Grove Pumping Station, were reduced, as proposed by the Commissioner, to Rs. 250, Rs. 100, Rs. 90 and Rs. 75, with effect from 1st May 1895, owing to the provision made for an Assistant Engineer, Mechanical Branch, under the head of General supervision, causing a saving of Rs. 375 per mensem. The extra provision required for 2 months at the existing scale was shown at page 37.

On the estimate of Rs. 52,000 for coal, Love Grove Pumping Station, it was—

Proposed by Mr. Rebsch, seconded by Mr. Vincent—
"That the sum of Rs. 55,000 be entered for coal."

Amendment proposed by Mr. Cowasjee Hormusjee, seconded by Mr. Bhalchandra K. Bhatawadekar—
"That the grant be entered at Rs. 52,000."

On a division the estimate was passed at Rs. 52,000.

The total estimate for the station was passed at Rs. 89,240.

The estimate for the maintenance of the new Pumping Station at Colaba (Shone system) was passed at Rs. 18,173, as originally entered.

The total grant for Drainage was passed at Rs. 2,36,678.

(*The grant for the current year is Rs.* 2,03,147.)

The increases are—	Rs.
Miscellaneous drainage	4,031
Maintenance, Love Grove P. S.	11,370
Colaba P. S.	18,173
	Rs. 33,574
Less—Maintenance of sluices	43
Net increase	33,531

Before adjourning the Committee asked the Commissioner to revise the Acting Commissioner's estimates of the Health Department and of the proposed new works to be provided out of current revenue.

The Commissioner expressed his willingness to comply with this request.

BOMBAY, *28th November* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman*.

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M. ; COWASJEE HORMUSJEE, ESQ., G.G.M.C. ; THE HON'BLE MR. FAZULBHOY VISRAM ; HURKISONDAS NURROTUMDAS, ESQ. ; THE HON'BLE MR. JAVERILAL UMIASHUNKAR YAJNIK ; KAIKHOSRO N. KABRAJI, ESQ. ; K. M. SHROFF, ESQ. ; S. REBSCH, ESQ., ASSO. M.I.C.E. ; ACCACIO G. VIEGAS, ESQ., L.M. & S. ; R. H. VINCENT, ESQ., C.I.E. ; CAPTAIN W. P. WALSHE.

H. A. ACWORTH, ESQ. I.C.S., Commissioner; the ACTING CHIEF ACCOUNTANT and the SECRETARY.

On the question of the signing of the minutes of the meeting held on the 21st instant,

Mr. Cowasjee Hormusjee asked that page 598 of the printed copy thereof might be amended by the insertion of the figures " 45 " in place of Rs. 50, conveyance allowance to the medical examiner.

The Secretary explained that " Rs. 45 " had been duly entered in the minute book and in the amended copy of the estimates. The " Rs. 50 " was a misprint.

At the request of Mr. Cowasjee Hormusjee the figures " Rs. 48,000 " for coal, Love Grove Pumping Station, page 604, were struck out, and the figures " Rs. 52,000 " inserted in place thereof, as the amendment which he had proposed was intended to enter the grant at the sum entered by the Acting Commissioner—Rs. 52,000.

The minutes were then signed.

Regarding the first item on the Agenda paper—the questions of sealing contract with Messrs. Tejee Kaya & Co. for the supply of road metal, and complaint from Mr. Sorabjee Nowrojee Moosa, the regular contractor for such supplies for the current year—the Chairman took no part in the proceedings.

Considered the following :—

No. 16363 of 1894-95.

BOMBAY, 14th *November* 1894.

To THE COMMISSIONER.

The quantity of metal indented for up to the end of October was 10,701 bras, and the quantity supplied 8,777 bras, leaving a deficit of 1,924 bras, or 192,400 c. ft. This short supply has resulted in loss to the Municipality in the salary of the establishment,—labourers had to be sent away, rollers were idling, and the roads were going into a state of disrepair.

To make good this deficit in part, arrangement has been made, with the sanction of the Standing Committee and at the risk and expense of Mr. Moosa, to purchase from Messrs. Tejee Kaya & Co. 1,500 bras of metal in the " B " and " E " wards only at Rs. 5-12-0 per bras, which is only one anna more per bras than Mr. Moosa's contract rate.

It would be well to warn Mr. Moosa, through his solicitors, that if by the end of the current month he fails to meet fully the indents of that month, and also to supply the balance of the deficit of (1,924—1,500)=424 bras of the preceding months, the short supply will be purchased for the "A" and "D" wards through other agency at the risk and expense of Mr. Moosa.

It may be stated that as the contractor was not making the required supply, he was verbally informed by the Executive Engineer, at the beginning of last month, that the sanction of the Municipal Commissioner would be obtained to purchase the metal through another agency, when Mr. Moosa solemnly promised to make up 500 bras out of the deficit of 1 775 bras by the end of that month, *viz.*, October; but instead of doing this, he failed to supply even the quantity indented for that month.

If the supply had been insufficient only during the "recent extraordinary state of the weather," the Executive Engineer would not have arranged for the purchase of the material from another contractor. The numerous letters of warning written to Mr. Moosa during the last six or seven months will show that the supply has been indifferent and insufficient during the whole of the time.

M. C. MURZBAN, Executive Engineer.

No. 19293 OF 17*th November* 1894.

Copy forwarded to the Standing Committee. There is no question whatever that the roads now must be given the greatest attention to, for many of them are not in the ordinary state of repair they have been in, and metal is urgently needed. The difficulties the Engineer has had for metal makes the duty of keeping the roads in repair very difficult, and it is not just to the Engineer's Department nor to the public that there should be this difficulty caused by the contractor. The Executive Engineer has given the utmost care to the matter, and the contractor has been treated with much leniency till leniency is no longer possible if the roads are to be kept in repair.

T. S. WEIR, Acting Commissioner.

No. 16790 OF 1894-95.

21*st November* 1894.

TO THE COMMISSIONER.

SIR,—I have the honour to return your No. 19488 of 20th November 1894, and to report that the circumstances of this case have been fully reported on to the Acting Municipal Commissioner in my letter No. 16363, dated 14th November 1894, to

which I beg now to invite your attention. From this letter it will be seen that Mr. Moosa's statement that this department has greatly exaggerated the real state of the deficit is entirely incorrect. As matters stand, this department has been very lenient to Mr. Moosa, even at the risk of considerable inconvenience and detriment to the Road Department work.

2. This will further be borne out on a perusal of the numerous notices which this Department had to write to Mr. Moosa during the last six or seven months of his contract period, and which notices are hereto appended.

3. As regards the statements made by Mr. Moosa, that the sanction of the Standing Committee was obtained to the acceptance of Messrs. Teju Kaya & Co.'s tender for the supply of 1500 bras of metal, and the work has been entrusted to another contractor, is entirely incorrect.

The Standing Committee accepted the tender of Messrs. Teju Kaja and Company, and the work has been entrusted to them and to no one else. This purchase is quite within the limit of the contract, and Mr. Moosa has nothing to complain of, as it is he himself who, in spite of repeated warnings, has driven this Department to the adoption of that course.,—I have, &c.,

M. C. MURZBAN, Executive Engineer.

No. 19553 OF 1894-95.

21st November 1894.

Forwarded to the Municipal Secretary for the information of the Standing Committee in reference to their Resolution No. 8710 of the 14th instant. The action which has been taken on the Executive Engineer's recommendation by the Standing Committee seems to the Commissioner to have been amply justified by the circumstances.

H. A. ACWORTH, Commissioner.

Proposed by S. Rebsch, Esq., seconded by R. H. Vincent, Esq.—

No. 9312.

"That the seal of the Corporation be affixed to deed of contract with Messrs. Teju Kaya & Co. for the supply of 1500 bras of road metal. That Mr. Sorabji N. Moosa be informed, in reference to his letter to the Committee, dated 14th instant, that his request cannot be complied with, and that the contract has been sanctioned for the purchase, at his cost and risk, of 1,500 brass of road metal from Messrs. Teju Kaya & Co."

Carried.

The consideration of the question of sealing deed of agreement (in duplicate) regarding land at Agripada was postponed until the next meeting, as also that of memorandum No. 19817, dated 21st instant, from the Commissioner, requesting that the deed in question may be sealed and returned to him soon.

No. 9313. *Resolved*: "That, as applied for by the Commissioner in his Memorandum No. 20021, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 9314. *Resolved*: "That, as applied for by the Commissioner in his Memoranda No. 19549, dated 21st instant, and Nos. 19790 and 19791, dated 24th idem, sanction be given, under section 351 (2) of the Municipal Act, to the removal of the following structures built without permission :—

Names of owners.	Where.
Mr. Mahomedali Gulam Hoosein	Building at No. 43—47 Huzaria Street.
G. B. Prabhaker	Privy at Girgam Road.
Hadji Ahmad Haji Jahn Mahomed ...	Shed at Dharavi Road."

Considered letter No. 19783, dated 23rd instant, from the Commissioner to the Secretary, as under :—

SIR,—With reference to Standing Committee's Resolution No. 8338 of 7th instant, I have the honour to inform the Corporation, that an offer has been received from the owner of the house immediately behind the one it is proposed to acquire, offering to purchase the surplus land (97 square yards) and materials at the valuation of the Executive Engineer, Rs. 4,446. The owner Dr. Sukhia says that he has the right of taking water from a well which is situated in the plot referred to. Whether this is a valid claim or not I do not know, but it is likely to give rise to complications if the land is sold by auction. Dr. Sukhia further makes it a condition that he should be allowed to project a gallery a yard deep from the building he wishes to erect. This is a request which could not well be refused to any other purchaser, as the strip of land would be almost useless for building without such a concession. Under all the circumstances I recommend that Dr. Sukhia's offer be accepted.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 9315. *Resolved*: "That letter No. 19783, dated 23rd instant, from the Commissioner to the Secretary, be forwarded to the Corporation

in continuation of the Committee's resolution No. 8338, dated 7th idem, and with the recommendation that, subject to the Corporation approving of the taking up of the property in question, sanction be given (1) to the sale to Mr. Nadirshaw H. E. Sukhia at the price of Rs. 4,446 of the surplus land, admeasuring 97 square yards or thereabout, available for resale after providing for the improvement of Barber Lane.

(2) " To Mr. Nadirsha H. E. Sukhiaji being allowed to project a gallery of three feet from the building he proposes to erect on such land, subject to the necessary requirements of the Municipality being fulfilled by him under the terms of the Act and the Building By-laws."

It was agreed that the consideration of the following be deferred until the next meeting :—Letter No. 19375, dated 19th instant, from the Commissioner to the Secretary, requesting sanction to the payment of bhatta allowance to the workmen drawing Bombay rates of pay, and overtime when sent out into districts beyond Bombay by the Water Engineer for short periods, at rates given in the letter. The amounts to be met from the Water Works Contingent Grant.

Letter No 19565, dated 21st instant, from the Commissioner to the Secretary, on the subject of the repair to a steam pumping engine which was presented to the Municipality by Mr. Rustamjee Jamsetjee Jejeebhoy in 1866 or 1867 as a fire-engine. Stating that the estimated repairs will cost from Rs. 700 to Rs. 800, and that the Superintendent of Workshops reports that he does not think it worth while to incur the expenditure as the engine is expensive to work and unsuitable for pumping. Requesting sanction to the purchase of a portable engine and boiler with a 4" centrifugal pump with accessories and 20 feet of 4" India rubber suction hose at a total cost of Rs. 1,330, to be apportioned as follows : Rs. 855 for the purchase of engine and boiler from Messrs. Volkart Bros.; Rs. 400 for the purchase of centrifugal pump with accessories from Messrs. John

Fleming and Co.; and Rs. 75 for the purchase of rubber suction hose from ditto. The cost to be met from Surplus Cash Balance.

Resolved: "That, as applied for by the Commissioner in his letter to the Secretary, No. 19640, dated 22nd instant, the Committee approve, under section 21 (4) of the Municipal Act, of a fee of Rs. 2 per copy being charged for copies of the Election Roll, which will be published on the 10th proximo."

No. 9316.

Considered letter No. 19392, dated 19th instant, from the Commissioner to the Secretary, as under:—

SIR,—I have the honour to report, for the information of the Standing Committee, that in order to facilitate the supply of road metal I have authorized the Executive Engineer to purchase from Mr. Haji Jacob Jan Mahomed 1,000 brass of rubble and stone chips at Rs. 2 per brass at his quarry at Jackeria Bunder.

The rubble and chips will be broken into metal by the stone-breaking machine lately obtained from England, or by hand labour if found necessary, and the metal will be carted away and used for road repairs. The Executive Engineer reports that the initial cost of the stone, plus the cost of breaking it into metal with the cost of cartage, will not exceed Rs. 5-11-0 per brass which is the current year's contract rate for the supply of metal. The metal contractor has been dilatory in supplying metal as will appear from this office No. 18213 of the 6th instant, requesting the sanction of the Standing Committee to purchase 1,500 brass of metal from Messrs. Tajee Kaya & Co. The proposal was sanctioned by the Standing Committee under their Resolution No. 8357 of the 7th instant.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved: "That the following be *recorded*:—Letter No. 19392, dated 19th instant, from the Commissioner to the Secretary, reporting that in order to facilitate the supply of road metal, he has authorized the Executive Engineer to purchase from *Hadji Jacob Jan Mahomed* 1,000 brass of road rubble and stone chips at Rs. 2 per brass at his quarry at Jakaria Bunder."*

No. 9317.

* The Chairman took no part in the consideration of this item of business.

No. 9318.

Resolved : " That, as applied for by the Commissioner in his letter to the Secretary, No. 19638, dated 22nd instant, sanction be given(1), under section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. Littlewood and Pallanji, whereby the contract time for the portion of the work undertaken by them between miles 30 and 31 of Tansa siphon No. 6, Kashele, be extended from the 31st October 1894 to the 31st January 1895, and (2) to the payment of Rs. 10 per brass only for rubble stone work between the 1st November 1894 and 31st January 1895.

" The cost to be debited to the grant of Rs. 30,000 for the work."*

Considered letter No. 19740, dated 23rd instant, from the Commissioner to the Secretary, as under :—

SIR,—Referring to Standing Committee resolution No. 7000 of 19th September, I have the honour to say that the Municipal Solicitors have advised the Acting Commissioner that section 238 of the Act contemplates the payment of rent for the use of the drain in cases where an applicant is not declared a joint owner, or of compensation where he is so declared, but not of both rent and compensation. They also advise, however, that in either case one of the conditions laid down by the Commissioner might prescribe the payment of a fixed or other sum towards the cost of maintaining or repairing the drain. I do not know what views may have been expressed at the Standing Committee when the subject was under discussion ; but I should say the best plan will be to charge Mr. Suntook a given rent for the use of the drain including the ground in which it is laid, and as one of the conditions, to prescribe that he shall pay an annual sum towards the maintenance of it. The fair sums to fix are Rs. 14 in the first case and Rs. 3-4-0 in the second.—I have, &c.,

H. A. ACWORTH, Commissioner.

* The total quantity of work on the sections undertaken is 865 brass, of which 689 brass were done before the 31st October 1894 and paid for at the special rate of Rs. 12 per brass, sanctioned in the Standing Committee's resolution No. 5213, dated 8th August 1894 ; 176 brass remain to be worked in, and for this, a rate of Rs. 10 is given.

Resolved: "That, with reference to letter No. 13463, dated 10th September last, from the Acting Commissioner to the Secretary, and letter from the Commissioner to the Secretary, No. 19740, dated 23rd instant, the Standing Committee approve of an order, in writing, being given by the Commissioner under the terms of section 238 of the Municipal Act, authorizing Mr. Nowroji B. Suntook to join the drain of his premises Nos. 65-67, Esplanade Road, with the drain of Bai Motlibai thereat, on the condition that he pay Bai Motlibai Rs. 14 per annum as rent for the use of the drain, including the ground in which it is laid, and an annual maintenance charge of Rs. 3-4-0 for the same."

No. 9319.

The further consideration of the following was postponed until the next meeting :—Letter No. 5167, dated 1st June last, and memorandum No. 16221, dated 15th October last, from the Acting Commissioner to the Secretary, on the subject of the laying of water mains in Connaught Road, Gilder Street, Souter and Club Streets and Sussex Road.

Considered the following :—

BOMBAY, *26th November* 1894.

The Sub-Committee appointed on the 15th August 1894, as per margin, beg to report that the Chairman, at the request of the Sub-Committee, addressed the Managers of the Exchange Banks and the principal Exchange Brokers in Bombay, requesting the favour of their opinions on the following points :—

That the following Sub-Committee be appointed to consider and report on the question of fixing exchange regarding works or supplies which are contracted for in sterling.

The Chairman, the Hon. Mr. Fazulbhoy Visram; the Hon. Mr. Javerilal U. Yajnik; Mr. Hurkisondas Nurrotamdas; Capt. W. P. Walshe; and Mr. Cowasjee Hormusjee.

1. "Whether exchange can be covered so far forward as a period of two years.

2. If not, what is the extreme limit for which exchange can be fixed forward ?

3. What is the ordinary limit of exchange transactions forward ?

4. Whether, if exchange is fixed forward for more than the ordinary limit, your Bank would charge a higher rate, and, if so, to what extent ?

5. Whether, in your opinion, it would be advisable for the Municipality, as a public body, to fix exchange ahead as far as possible whenever a contract is entered into, or to wait until the moneys payable by them become due ?"

The Sub-Committee have now been favoured with the opinions of the Managers of the National Bank of India, of the Comptoir National d'Escompte de Paris, the Manager of the Chartered Bank of India, Australia and China, the Manager of the Hong Kong and Shanghai Banking Corporation, the Manager of the Agra Bank and the Manager of another bank, and by the following Brokers :—Messrs. N. S. Symons, H. S. Symons, Premchund Roychand, W. Bullock, C. L. Weber, and Messrs. Merwanji and Byramji.

6. It will be observed from the tabulation appended hereto, that with reference to the question whether exchange can be covered so far forward as for a period of two years, that seven of the gentlemen, who have favoured the Committee with their opinion, state distinctly that it cannot be. The Manager of one Bank says that there is nothing to prevent a firm or a bank covering exchange so far forward as two years. The Manager of another Bank is of opinion that it might be covered for that long period at special rates—perhaps one penny less than the quotations for the day on which the operations were effected. In the same way, three of the Brokers consulted state that it may be possible, occasionally, to cover exchange for two years by buying at a rate much under the current rate. One broker considers the entering into contracts for such a long period would be very risky on the part of the Corporation.

7. As regards the second question, " what is the extreme limit for which exchange can be fixed forward," the reply in two cases is one year ; in six cases, eight or nine months ; in two cases, no fixed limit. One Bank Manager states that banks do not care to fix beyond May, except at special rates lower than those current.

8. On the third question, "what is the ordinary limit of exchange transactions forward." The replies vary—3, 6, 8, 9 months, but one of the bank managers takes the limit at about one year.

9. On the fourth question, "whether if exchange is fixed forward, lower rates would be given," most of the replies are in the affirmative.

10. Regarding the fifth question, "whether it is advisable for the Municipality to fix exchange ahead as far as possible whenever a contract is entered into," the replies are practically unanimous, that the Corporation should in all cases fix exchange by renewing, if necessary, contracts for further periods. The Corporation could always re-sell exchange at due date of contract, if not then required. Public bodies should not speculate, and their transactions should be completed without delay.

11. Mr. Premchund Roychund's opinion is that it is speculative to fix exchange ahead, and that it should only be fixed as required.

12. The Sub-Committee therefore, as the general result of the information they have been able to obtain, recommend that in future, when the Municipality enters into contracts for works or supplies which are contracted for in sterling, where the transaction is likely to extend over a considerable period of time, the Commissioner should, at once, arrange to fix the necessary exchange forward so far as possible at the time of entering into the contract, and if it is not possible to so fix exchange forward, then that from time to time during the continuance of the contract so far as it may be feasible, forward exchange should be secured to the greatest possible extent.

G. W. ROUGHTON, Chairman.
FAZULBHAI VISRAM.
W. P. WALSHE.
JAVERILAL U. YAJNIK.
COWASJI HORMUSJI.
HURKISONDAS NURROTUMDAS.

EXCHANGE

QUESTIONS.	Bank Manager No. 1.	Bank Manager No. 2.	Bank Manager No. 3.	Bank Manager No. 4.	Bank Manager No. 5.
1. Whether exchange can be covered so far forward as a period of two years?	No. No Bank would take the risk.	Yes	No. Banks would be chary of fixing even for one year.	Yes. At special rates, perhaps one penny less than quotation.	No. ... ...
2. If not, what is the extreme limit for which exchange can be fixed forward?	No fixed limit but Banks do not care to fix beyond May unless at special rates lower than those now current	No limit	About one year..	No fixed rule—but can be settled forward.	9 months ...
3. What is the ordinary limit of exchange transactions forward?	9 months, usually under that time.	About one year..	6 to 9 months ...	Rarely 9 months, but 3 months usual limit except at a sacrifice.	3 to 9 months.
4. Whether, if exchange is fixed forward for more than the ordinary limit, your Bank would charge a higher rate, and if so, to what extent?	Lower or worse rate if beyond 6-8 months. How much lower, cannot state.	Forward business done for 8 to 10 months only.	Might be one per cent. on the rate, or more.	1-32 penny or more.	Yes ... ...
5. Whether in your opinion, it would be advisable for the Municipality, as a public body, to fix exchange ahead as far as possible whenever a contract is entered into, or to wait until the moneys payable by them become due?	Yes. Only sound business to do so whenever contract for supplies payable in England is entered into. By so doing no risk would be run by Municipality. In the event of a forward contract not being taken up at due date, a further extension would be granted, but a penalty would be exacted by the Bank selling. On the other hand the Municipal Corporation could always re-sell their exchange at due date of contract, if not then required, and repurchase for further forward delivery.	No definite opinion can be expressed. If the Corporation desire to fix the amount which they may have to pay they must fix the exchange. It might be to their advantage to wait.	No settled opinion can be offered, may be desirable for a public body to have fixed policy, and always fix ahead provided there is no good reason for anticipating substantial rise.	Yes. Especially when the period is only a few months.	Yes, as far as possible renewing the contract for a further period as required and at a small charge.

QUESTION.-

Broker No. 1.	Broker No. 2.	Broker No. 3.	Broker No. 4.	Broker No. 5.	Broker No. 6.	Broker No. 7.	Bank Manager No. 8.
Very seldom.	No	No	No, except occasionally by buying much under the current rate.	No	In very exceptional cases the limit of 8 or 9 months is exceeded.	Yes. For a particular month, but at a great sacrifice and at a very high difference in rates such a transaction would be very risky to the Corporation.	No.
9 months ...	9 months extreme limit.	One year ...	9 months. ...	12 months extreme limit, but, as a rule, the limit is 9 or 10 months.	Do. ...	6 months	Safely 6 to 8 months.
9 months ...	6 to 8 months...	6 months for time, none for amount.	3 to 5 months except in busy season.	6 to 8 months ...	6 months ...	Questions misunderstood, and the answers given in respect of amounts and not time.	Appears to 6 to 8 months.
Entirely, depends on state of market.	No fixed rule Depends on circumstances.	No fixed rule. Depends on market.	No fixed rule.	If fixed forward for longer than the ordinary limit, it is only reasonable that Banks will charge higher rate.	No fixed rule; depends on the market.		Depends on circumstances at the time of the year the exchange is fixed, the position of the money market, the state of trade and the political out-look.
Yes, most certainly.	Yes, certainly as far as possible extending contract public bodies should not speculate and transactions should be reconverted without delay.	Yes most decidedly fix exchange whereon contract is entered into otherwise transaction speculative.	Yes, as far as ahead as possible whenever a contract is entered into.	Yes. But in the event of the Municipality not being able to fix exchange to suit their arrangements for remittance, then it should be done, at the first available opportunity.	Yes. Approximately whenever it is possible to do so. It would generally be easy to do this within a short time of the contracts.	It is speculative to to do so, exchange should only be fixed as required for amounts that have to be remitted. The employment of a broker is recommended.	Yes. It would be advisable for the Municipality as a public body to fix exchange ahead as far as possible whenever a contract is entered into or to wait until payment is due.

Resolved . "That the report of the Sub-Committee, on the question of fixing exchange regarding works which are contracted for in sterling, be approved and adopted as the report of the Committee, and that the same be forwarded to the Corporation for information, with reference to their resolution No. 5339, dated 9th August last."

No. 9320.

The consideration of the Health Officer's report for the 1st quarter of 1894 was postponed until the next meeting, and it was agreed that the consideration of the minutes of the Sub-Committee on the question of the proposed site for Health Department Stables at Bellasis Road be postponed until after the disposal of the Budget Estimates.

Resolved : "That the following be referred to the Commissioner for favour of remarks :— Letter No. 18998, dated 14th instant, from the Acting Commissioner to the Secretary, forwarding an estimate of Rs. 25,288 for converting into an open drain with paved bottom and sides, the ditches in Elphinstone Road, which the Standing Committee inspected on the 11th instant. Stating that the construction of the open drain will give a flow to the sewage and carry it beyond the ditch between chawls where it now settles."

No. 9322.

Resolved : "That, with reference to the Commissioner's memorandum No. 19574, dated 21st instant, the Standing Committee approve of the service of a notice in writing, under the terms of section 381 of Act III of 1888, on Mr. Kavasji Edulji Patel, requiring him to clean the mill tank attached to his premises No. 35, Bapty Road, as the tank is reported by the Acting Health Officer to be full of rubbish, the water thereof to be smelling offensively, and as causing a serious nuisance."

No. 9323.

Resolved : "That letter No. 18855, dated 13th instant, from the Acting Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to

No. 9323A.

the grant of Rs. 750, from Surplus Cash Balance, to provide for the cost of erecting 15 temporary sheds, at different places, along the Tansa water main, required for the shelter at night of workmen employed on the main."

Resolved: "That, with reference to the Acting Commissioner's memorandum No. 18885, dated 13th instant, the Standing Committee approve of the service of a notice in writing, under the terms of section 381 of Act III. of 1888, on Mr. Kushal Nanji, calling upon him to clean the well attached to premises No. 219, Tardeo Road, as the water in the well is reported to be foul and as causing an offensive smell." No. 9324.

The consideration of the following was postponed until the next meeting:—Letter No. 16163, dated 13th October last, from the Acting Commissioner to the Secretary, on the subject of the charge for water supplied to the Madhowji Dharamsi Manufacturing Company.

It was agreed that the following be circulated and brought on for consideration at a future meeting:—Letters from the Acting Commissioner to the Secretary, requesting sanction to the continuance of the employment of the establishment provided in the Loan Works Budget for 1894-95 up to the end of September 1895, in connection with the construction of the Bori Bander bigaries' chawl. The amount to be met from the contingent provision for the work.

Resolved: "That, with reference to undated letter to the President, on the subject of the want of drainage in the localities of Carroll, Elphinstone and Bhoiwada Roads, the Standing Committee are of opinion that Messrs. Sassoon J. David, Dinsha E. Commissariatwalla and others, should be informed that the Corporation are now considering the question of the improvement of the drainage of the districts referred to." No. 9326.

Considered letter No. 19639, dated 22nd instant, from the Commissioner to the Secretary, as under :—

SIR,—I have read resolution No. 8723, of 14th instant, by the Standing Committee, forwarded with your letter No. 8745 of same date, relating to Mr. Dosabhai Sorabji's house in 1st Pinjrapole Street. The motion was proposed, I observe, on letters Nos. 13492 of 8th October and 14117 of 17th idem, from the Executive Engineer and memo. No. 17255 of 25th idem, from the Acting Commisisoner, which are given in the margin, and probably rejected on the strength of the opinions expressed in the last two of these communications. I think it right to say that I wholly dissent from these opinions. Mr. Murzban is wrong, in fact, when he says:—"That if set-backs are not acquired when there are opportunities, the streets could never be improved." The proposal contained in the above referred to motion and rejected by the Standing Committee, secures the improvement of the street just as certainly

No. 13492 OF 1894-95.

BOMBAY, *8th October* 1894.

TO THE MUNICIPAL COMMISSIONER.

SIR.—With reference to your No. 15100 of 2nd October 1894 (herewith returned), I have the honour to report as follows :—

2. Mr. Dosabhai Sorabji having commenced to rebuild portions of the front wall of his premises at 1st Pinjrapole Street, lying within the regular line of the street, a notice, under section 351 of the Act, was served on him on 14th June 1894, calling upon him to show cause why the said work should not be removed. As he failed to comply with the requisition, a plan showing the portions of the wall in question was submitted to you with this office No. 7888 of 19th July 1894, with a request "that the sanction of the Standing Committee may be obtained to the demolition of the said structure. This sanction was given by the Committee under their resolution No. 4686 of 18th August 1894.

3. The owner having subsequently promised to comply with the requisition, he was allowed to defer the removal until the end of last month. He has now applied to the Standing Committee for permission to retain the work, and it is for them to decide whether his request should be granted or not.

4. The only thing in favour of the request being granted is that the new work consists of rebuilding merely the front wall of the shop. While in the case of Mr. Valee Peer Mahomed the Standing Committee have sanctioned the erection of a building on land which was at that time actually vacant.—I have, &c.,

M. C. MURZBAN, Executive Engineer.

No. 14117 OF 1894-95.

BOMBAY, *17th October* 1894.

TO THE MUNICIPAL COMMISSIONER.

MEMO.—On principle the undersigned is opposed to such requests being granted, as if set-backs were not acquired when there are opportunities, the streets could never be improved. The Standing Committee having, however, granted permission to build on land which was actually open in Chuckla Street, the undersigned does not see how they can consistently refuse this and other applications of a similar nature.

M. C. MURZBAN, Executive Engineer.

No. 17255 OF 1894-95.

BOMBAY, *25th October* 1894.

Copies forwarded to the Municipal Secretary, with reference to the Standing Committee Resolution No. 7107 of the 26th ultimo.

The Acting Commissioner fully agrees with the Executive Engineer.

T. S. WEIR, Acting Commissioner.

as if the set-back were taken now, with the added advantages that it also secures that it shall not be taken prematurely, but only when it will be useful to the public, and that Municipal money shall not be abortively expended on it, but invested at high interest. It is, I am sure, unnecessary that I should point out that the Standing Committee have immemorially recognized and acted on these principles, and that if they did not, they could not secure a proper economy of expenditure, and would cause needless and unprofitable vexation to house-owners. I submit that the sole question is whether the value to the public of the set-back in the particular case under consideration now or at any given time is such that it ought to be immediately insisted on. If this is decided in the negative, it surely ought not to be insisted on. In the present case, the set-back will, in my judgment, be perfectly useless until the house at the corner of the street is also set-back, and I would request the Standing Committee to defer it accordingly until that time arrives.—I have, &c.,

H. A. ACWORTH, Commissioner.

Proposed by Cowasjee Hormasjee, Esq., seconded by K. M. Shroff, Esq.—

"That, as applied for by the Commissioner, in his letter to the Secretary, No. 19639, dated 22nd instant, sanction be given to Mr. Dosabhoy Sorabji, being allowed to retain on the following conditions, the works executed within the regular line of the street at his house, 1st Pinjrapol, *viz.*, (*a*) That the land required from him for the street improvement admeasuring 21 square yards, or thereabout, shown in yellow colour on the plan marked *A, dated this. day,* and filed in "Supplement to *Minute Books,*" be sold to the Municipality at the rate of Rs. 15 per square yard, *minus* the capitalized amount of ground rent, if any, paybale either to Government or the Fazindar as the case may be, calculated at 25 years' purchase. (*b*) That the Municipality lease the 21 square yards to Mr. Dosabhoy Sorabji, at an annual rent to be paid by him to the Municipality in advance calculated at 6 per cent. on the total amount paid to him by the Municipality, for the absolute purchase of the land, the said rent to be paid by him until such time as the house on the north side of the property in question becomes liable to be set-back. (*c*) That he pays the cost of

No. 9327.

stamping and registering the agreement and of renewed agreements from year to year. (*d*) That when the house on the north, adjoining his property, becomes liable to be set-back he shall remove the superstructure which stands on the said 21 square yards of land within the regular line of the street, and make over the said 21 square yards, or thereabout, to the Municipality, clear of all encumbrances.

"That Messrs. Payne, Gilbert and Sayani be informed accordingly in reference to their letter of the 19th instant."

Amendment moved by S. Rebsch, Esq.—

"That the land required from Mr. Dosabhai Sorabji's property at 1st Pinjrapole Street, be taken up for street improvement."

The *Amendment* was not seconded. The original motion was *carried* (with one dissentient).

The following return was read and *recorded*:—

Return of fires at Janjikar Street and Chinchpokli Road, forwarded with the Commissioner's Memorandum No. 19367, dated 19th November, 1894.*

The following statement† was laid on the table :—

Statement of height of water in the Vehar, Tulsi, Pavai and Tansa Lakes for the week ending 25th November 1894.

The further consideration of the Budget estimates for 1895-96 was proceeded with.

PUBLIC WORKS (*Engineer's*) *Department. Detailed Statement No.* 8 *continued.* III.—WATER WORKS.

Proposed by the Hon'ble Mr. Javerilal U. Yajnik, seconded by K. M. Shroff, Esq.:—"That the pay of the Water Engineer be entered at Rs. 1,000 per mensem, the same as for the current year."

Amendment proposed by Mr. Vincent, seconded by Captain Walshe—

"That the salary of the Water Engineer be entered at Rs. 1,200 per mensem."

* *See* Appendix C. † *See* Appendix B.

Mr. Shroff raised the point of order whether it was competent to the Standing Committee to increase the maximum sum entered in the schedule?

The Chairman said it was competent to the Committee to increase the amount, the words of the Act being that "the Commissioner shall, as soon as may be after this Act comes into force and afterwards from time to time, prepare and bring before the Standing Committee a schedule setting forth ... ... the amount and nature of the salaries ... ... which he proposes should be paid to each."

On a division the *original motion* was *carried* by 6 votes against 5 votes, and the pay was entered at Rs. 1,000.

Mr. Cowasjee Hormusjee proposed to omit the provision for certain additional hands under the heads of Maintenance, Inspection, Distribution, and Waste Prevention, and Lakes, Reservoirs and Filters, and after discussion the Commissioner agreed to reduce the number of extra men entered in the estimates from 40 (at a proposed enhanced charge of Rs. 4,536) to 18 men at an additional cost of Rs. 2,064 per annum, as shown in the "Remarks" column of the estimates; and it was resolved that the schedule be amended accordingly.

The grant for establishment and labour was thus reduced to Rs. 1,51,800 as against Rs. 1,56,672 entered in the original estimates.

II. MATERIALS AND PLANT.—Proposed by Mr. Cowasjee Hormusjee, seconded by the Hon'ble Mr. Javerilal U. Yajnik—

That the estimate for general work and repairs in Bombay be reduced from Rs. 30,000 and entered at Rs. 20,000; that the estimate for repairs and painting to buildings in Bombay be reduced from Rs. 1,000 and entered at Rs. 500; that the estimate for general work and repairs outside Bombay be reduced from Rs. 10,000 and entered at Rs. 6,500; that the estimate for repairs and painting to buildings and bridges outside Bombay be reduced from Rs. 4,000 and entered at Rs. 3,000; that the estimate for tools and plants be

entered at Rs. 15,000 as shown in the original estimate, total Rs. 45,000, as for the current year. On a division the motion was *carried* by 7 votes against 2 votes.

The estimate was therefore entered at Rs. 45,000, as against the Rs. 60,000 entered in the original estimate.

3. CONTINGENCIES.—The estimate for minor and unforeseen charges under the head of "Contingencies" was reduced from Rs. 1,500 to Rs. 1,000, and the total estimate under this head was passed at Rs. 14,190 as against the Rs. 14,690, entered in the original estimate.

5. Diversion of the Tulsi Main near Mahim Station to Municipal ground, Rs 5,800.

On the proposal of Mr. Cowasjee Hormusjee this estimate was struck out.

The total estimates for Water Works were passed at Rs. 2,40,206 (an increase of Rs. 11,238 over the grant for the current year) as against the Rs. 2,66,378, entered by the Acting Commissioner.

The increases are—

1. Establishment as explained in schedule at pages 39 to 41	Rs. 2,064		
Less—Salary drawn below maximum in excess of the amount shown in the Budget for 1894-95	„ 216		
			1,848
2. Materials and Tools and Plants.....		Rs.	5,000
3. Contingencies—			
Miscellaneous charges.....	Rs. 4,510		
Printing	„ 400		
	4,910		
Less decreases—			
Advertisements ..... Rs. 200			
Repairing levels and other instruments ..... „ 20			
Clothing..... „ 300			
	520		
			4,390
		Total.....Rs.	11,238

IV. STREETS AND BUILDINGS.—Under the head of office, an increase of Rs. 120 per annum was passed for increasing the pay of two clerks from Rs. 15 to Rs. 20 per mensem each, and the schedule was amended accordingly.

The total estimates for (A) Inspection and Supervision were passed at Rs. 86,637, a decrease of Rs. 40 on the grant for 1894-95.

(*The grant for the current year is Rs.* 86,677.)

Lighting.—The estimates for gas-lighting were passed as entered at Rs. 2,86,894, the same as for the current year.

The estimate for Kerosine lighting, including 100 new lamps for the new roads in Agripada, was passed at Rs. 37,420, an increase of Rs. 1,580 over the grant for the current year.

The total estimates for lighting were passed at Rs. 3,24,314.

(*The grant for the current year is Rs.* 3,22,734.)

C ROAD WATERING.—The estimate for this service was passed as entered at Rs. 82,400 (the same as for the current year).

D ROAD REPAIRS AND MAINTENANCE.—The estimate for this branch was passed as entered at Rs. 3,50,910, the same as for the current year.

The grants for street improvements and for cleaning, lighting and repairing Port Trust wharf roads were passed at Rs. 1,02,500 and Rs. 38,842, respectively, the same as those for 1894-95.

The total estimates included in Statement No. 8 were passed at Rs. 15,08,651, showing an increase of Rs. 52,147.

(*The grant for the current year is Rs.* 14,56,504.)

The Committee next proceeded to consider the estimates as revised by the Commissioner (since the last meeting) for the Health Department, for new works, the loan works estimates, &c.

Public Health Department Detailed Statement No. 9.

The total estimates under this head had been reduced by the Commissioner from Rs. 14,49,291-0-2 to Rs. 13,86,347-0-2, or a decrease of Rs. 62,944.

Under the head of General Supervision the estimate was passed at Rs. 44,322, a net decrease of Rs. 438 on the estimates for the current year.

Decreases—		
Contingencies, tolls	Rs.	358
Peons' clothing	„	280
		638
Less increase—		
Fees for Summonses.....	Rs.	200
Net decrease...Rs.		438

II. CONSERVANCY BRANCH—The estimate for superintendence and inspection was passed at Rs. 58,481, a decrease of Rs. 196 on the grant for the current year, consequent on the transfer of 3 mukadams, costing Rs. 460 per annum, to section 3, B Incinerators, *minus* Rs. 264 on account of provision made for 2 Ramosees at Rs. 11 per month each for the bullock hospital. It was resolved that the schedule be amended accordingly.

The estimate for labour and feed of cattle under A Scavengering was passed at Rs. 3,09,429, causing a decrease of Rs. 2,760 per annum on the estimates for the current year, owing to the transfer of 23 refuse kilnmen at Rs. 10 per mensem each. It was agreed that the schedule be amended accordingly.

(*The grant for the current year is* Rs. 3,12,189.)

The estimate for Surface Drain-cleaning was passed at Rs. 1,47,808, the same amount as for the current year. On the estimate for gully flushing, a new head, it was agreed that the appointment of a sub-inspector on Rs. 20 per mensem be struck out of the schedule; and that the pay of an engine driver entered therein at Rs. 40 be reduced to Rs. 25. The total estimate for establishment for this service to be added to the Health Department schedule, was thus reduced from Rs. 2,514 to Rs. 2,094 per annum.

The total grant for gully flushing, including establishment, coal, feed of bullocks and repairs to engines, &c., was passed at Rs. 3,746.

Disposal of Town Sweepings.

The consideration of the estimates under this head was postponed.

The Committee adjourned, and it was agreed that a special meeting for the consideration of the remaining items be held at 3 P.M. on Friday, 30th instant.

BOMBAY, *30th November* 1894.

AT a special meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, Esq., *Chairman.*

COWASJEE HORMUSJEE, ESQ., C.C.S.C.; THE HON'BLE MR. FAZULBHOY VISRAM, HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, ESQ.; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPT. W. P. WALSHE.

H. A. ACWORTH, ESQ., I.C.S., Commissioner; the HEALTH OFFICER; the WATER ENGINEER; the Acting CHIEF ACCOUNTANT; and the SECRETARY.

A letter was received by the Secretary from Bhalchandra K. Bhatawadekar, Esq., apologising for non-attendance on account of the sudden death of his nephew.

The consideration of the Budget estimates for *1895-96* was resumed.

Public Health Department Detailed Statement No. 9—contd.

DISPOSAL OF TOWN SWEEPINGS.—The estimate for a reclamation was passed at Rs. 21,826, the same amount as for the current year.

B. INCINERATORS.—The estimate for this new item was passed at Rs. 9,711, and it was agreed that the establishment consisting of 2 Sub-Inspectors on Rs. 20, 2 drivers on Rs. 35, two coalmen on Rs. 12 and 7 bigaries on Rs. 10 each, be included in the schedule.

4. REPAIRS.—Mr. Cowasjee Hormusjee proposed and the Hon. Mr. Javerilal U. Yajnik seconded, that the estimate for repairs to carts be reduced from Rs. 24,000 to Rs. 21,000. The Commissioner did not oppose the reduction, and the estimate was passed at Rs. 21,000 and the total estimates for repairs at Rs. 23,750.

5. STORES.—The estimate of "miscellaneous" under this head was reduced from Rs. 14,600 to Rs. 13,500, and the total estimate for stores was passed at Rs. 32,700.

6. NEW STOCK.—The estimate under this head was passed at Rs. 12,050.

7. RENT.—The estimate under this head was passed at the amount entered Rs. 16,816-5-0.

8. WATER SUPPLY.—Proposed by Mr. Cowasjee Hormusjee, seconded by the Hon. Mr. Javerilal U. Yajnik: "That the estimate for water supply and rent of meters be reduced from Rs. 26,000 to 21,000."

Amendment proposed by Mr. Vincent, seconded by Mr. Rebsch: "That the estimate be passed at Rs. 26,000." There were 4 votes *for* and 4 *against* the amendment, which was *lost* by the vote of the Chairman.

The estimate was passed at Rs. 21,000.

9. The estimate for waterproof clothing, &c., was passed at Rs. 1,644-8-0.

10. HALALKHOR BRANCH.—An increase of Rs. 552 per annum was passed under the head of "Labour" to provide for the employment of 4 additional Halalkhors at Rs. 11-8-0 per mensem each, and it was agreed that the schedule be amended accordingly. The estimate for labour was passed at Rs. 2,84,106 as against Rs. 2,83,554 for the current year.

J. Water Supply—Proposed by the Hon. Mr. Javerilal U. Yajnik, seconded by Mr. Cowasji Hormusji, "That the estimate for water and rent of meters be reduced from Rs. 37,450 and entered at Rs. 32,000."

Amendment proposed by Mr. Vincent, seconded by Mr. Rebsch, "That the estimate be passed at Rs. 37,450."

There were 5 votes *for* and 5 *against* the amendment, which was *lost* by the vote of the chairman.

Amendment proposed by Captain Walshe, seconded by Mr. Hurkisondas Narrotamdas, "That the estimate for water be passed at Rs. 36,239."

This amendment was *carried*, and the estimate was entered at Rs. 36,239 accordingly.

The total estimate for the Halalkhor Branch was passed at Rs. 4,28,541-4-11 as against the Rs. 4,14,886-10-0 for the current year or an increase of Rs. 13,654-10-11

The increases and decreases are as under :—

Increases—						
B.—Labour	Rs.	552	0	0		
G.—Rent	„	109	10	11		
I.—Water supply	„	16,239	0	0		
					16,900	10 11
Less Decreases—						
E.—Repairs and maintenance	Rs.	2,946	0	0		
F.—Purchase of Bullocks...	„	300	0	0		
					3,246	0 0
Net increases Rs...					13,654	10 11

The total estimate for Conservancy Branch was passed at Rs. 10,87,503-1-11, as against Rs. 10,68,406-0-0 for the current year, or an increase of Rs. 19,097-1-11.

The increases and decreases are as under :

Increases—				
2.—Labour, including Feed of cattle, C. Gully flushing	Rs.	3,746	0	0
3.—Disposal of Town sweepings, B. Incineration	„	9,711	0	0
5.—Stores	„	900	0	0
8.—Water supply	„	5,850	0	0
9.—Waterproof clothing, &c.	„	150	0	0
10.—Halalkhor Branch	„	13,654	10	11
		34,011	10	11
Less Decreases—				
1.—Scavengering establishment	Rs.	196	0	0
2.—Labour A Scavengering .	„	2,760	0	0
4.—Repairs	„	4,050	0	0
6.—New Stock	„	7,450	0	0
7.—Rent	„	458	9	0
		14,914	9	0
Net increases Rs...		19,097	1	11

Markets and Slaughter-Houses' Labour.

The increase of Rs. 2,304 for the pay of four additional labourers and the increase of the pay of 74 labourers, from Rs. 9 to Rs. 11 each, as sanctioned by the Corporation on the 18th May 1894, was passed. It was agreed that the schedule be amended accordingly. It was also agreed that the establishment costing

Rs. 3,336 per annum for lighting the A. C. Markets and the Municipal offices with electricity, &c., as detailed at page 57 of the Budget, be added to the market establishment.

LIGHTING.—An increase of Rs. 961 was passed under this head to provide for lighting the new Mutton Market, Arthur Crawford Markets, and the new Foras Road Market.

10. *Repairs to Markets and Slaughter Houses.*—This estimate was reduced from Rs. 20,100 to Rs. 18,000.

12. WATER SUPPLY.—The estimate, Rs. 36,975, for water supply and rent of meters, was reduced to Rs. 34,000.

The total estimate for Markets and Slaughter-Houses was passed at Rs. 1,54,912-10-9 as against Rs. 1,33,948-10-9, or an increase of Rs. 20,964.

The increases and decreases are as under :—

Increases—

1.	Superintendence (General) owing to the provision of the staff for the DeLisle Road sheep market being required for the full year instead of for six months as provided in 1894-95	Rs.	1,224
4.	Labour.....	„	2,304
5.	Lighting markets, &c.	„	961
7.	Disposal of offal	„	15
10.	Repairs, &c.....	„	8,000
11.	Rent.....	„	6,000
12.	Water-supply	„	3,640
		Rs.	22,144

Less—

Decreases—9 contingencies				
Peons' clothing	Rs.	1,080		
Renewal of notice boards	„	500		
		1,580		
Less—				
Increase under Printing contingencies, &c.	„	400		
				1,180
Net increase Rs....				20,964

IV.—REGISTRATION OF BIRTHS AND DEATHS.—Under the head of establishment, an increase of Rs. 600 was sanctioned to allow of the pay of the Registration Clerk, Sewri Cemetery, being increased from Rs. 30 to Rs. 40 per mensem, and to provide for the employment of two "Birth Inspectors" on Rs. 20 each, as per pages 54 and 68 of the estimates. It was agreed that the schedule be amended accordingly.

V.—CEMETERIES.—An increase of Rs. 750 per annum was sanctioned under the head of purchase of Live Stock, as per page 69 of the estimates. The estimate of Rs. 3,000, wood for cremation purposes, was reduced to Rs. 2,000.

VI.—LABORATORY.—An increase of Rs. 60 per annum in the pay of the attendant was sanctioned, and it was agreed that the schedule be amended accordingly.

VIII.—INFECTIOUS DISEASES.—An increase of Rs. 2,000 was sanctioned for cost of special measures in the event of outbreak of epidemic disease.

IX.—MILCH CATTLE STABLES.—An increase of Rs. 24 per annum was sanctioned to provide for the employment of two Police ramosees in place of peons, as per pages 53, 54 and 71 of the estimates.

The total estimate for the Health Department, including general supervision and conservancy, markets and slaughter-houses, registration of births and deaths, cemeteries, laboratory, dhobiwada, infectious diseases, milch cattle stables, tank conservancy, dharamsalla, and contribution to Government for vaccination, was passed at Rs. 13,69,541-0-2, or an increase of Rs. 38,382-1-11.

(*The grant for the current year is Rs.* 13,31,158-14-3)

Statement of Loan Interest and Sinking Fund, &c., Detailed Statement No. 10.—The estimates under this head were passed at Rs. 20,78,726 as against the grant for the current year, Rs. 20,71,951—an increase of Rs. 6,775.

Pensions and Gratuities, (*Detailed Statement No.* 11.)

This estimate was passed at Rs. 45,000 as against the grant of Rs. 37,326 for the current year, or an increase of Rs. 7,674.

Police Statement, (Summary of Expenditure.)

This estimate was passed at Rs. 4,00,000, the same as the grant for the current year.

Education Statement—(Summary of Expenditure). The estimate under this head was passed at Rs. 89,435, the same as the grant for the current year.

Hospitals, &c., Statement, (Summary of Expenditure.)

Proposed by Mr. K. M. Shroff:—

"That the estimate of Rs. 36,000 for the Goculdas Tejpal Hospital be struck out." This proposal was not seconded, and the estimate was passed at Rs. 36,000, the same as for the current year. The total grant for Hospitals, &c., was passed at Rs. 57,000.

Discretional Contingencies, Statement (*Summary of Expenditure*)—The estimate under this head was entered at Rs. 7,000, the same amount as granted for the current year.

Auditors' Allowance—Statement (Summary of Expenditure)—Under this head the estimate was passed at Rs. 10,000, the amount of the grant for the current year.

Election Expenses—Statement (Summary of Expenditure).

The estimate under this head was passed at Rs. 1,000, as against the grant of Rs. 10,000 for the current year.

Municipal Buildings Fire Insurance Fund Statement—(Summary of Expenditure) was passed at Rs. 3,000, the amount sanctioned for the current year.

New Works to the debit of current revenue—Detailed Statement No. 12.

It was agreed that the following new works be included in the estimate.

With regard to the item of quarters for Sub-Inspector and watchmen, Tansa Lake, it was resolved, on the motion of Mr. Vincent, seconded by Mr. Rebsch, by 6 votes against 4 votes, that the same be included. The Commissioner said he would have the detailed plans and estimates of this work placed before the next meeting of the Committee.

Drainage.

	Rs.	Rs.
Mechanical Stokers, Love Grove Pumping Station	10,000	
Miscellaneous Drainage Works	5,000	
Repairs to Condensing Tanks, Love Grove Pumping Station	5,000	
Vent shafts on main sewer	3,500	
Automatic Sewage Height Recorders	3,000	
Servants' quarters for the Engineer's Bungalow at Love Grove Pumping Station	2,068	
Rebuilding a portion of the existing storm-water drain under the footpath at Rampart Row and providing manhole for it	2,603	
		31,171

Water Works.

Quarters for Sub-Inspector and watchmen, Tansa Lake		12,000

Sanitary and other Miscellaneous Works.

Latrines and Urinals	12,000	
New Machinery, Municipal Workshops	3,550	
Improvements in connection with the Garlick's Incinerator	3,508	
Building walls at Tank Bunder Burial Ground.	3,029	
9" Stoneware pipe line from the Garlick's Incinerator to Paltan Road	1,533	
Paving and draining Bhungy Mohla Night-soil Depôt	1,198	
Fixing cast iron pipes for the observation of sub-soil water and detection of leakage	750	
Reverse ball valves for urinals	726	
Purchase of land at Bhungy Mohla	552	
Filling in the trench and paving the floor of the Pumping House at Carnac Bridge after removal of the Pumping engine iron pipes, &c.	511	
Altering the sanitary arrangements at Grant House	451	
Observation wells for sub-soil water, Kamathipura	437	
		28,245
Total Rs.		71 416

The estimate of investment of the interest to be realized on the Sinking, Insurance, worn-out mains renewal and Premia Funds during 1895-96, was passed at Rs. 77,500, as detailed at page 5 of the Budget.

The grand total of the estimated expenditure for the year was passed at Rs. 63,51,823, or Rs. 94,612 more than for 1894-95.

The grand total of the estimated expenditure for the year, including Rs. 16,92,477, balances at the close of the year was passed at Rs. 80,44,300, or an increase of Rs. 19,800, over the estimate for the current year.

Loan Works Budget Detailed Statement No. 13.

Mr. Cowasjee Hormusjee proposed and the Hon'ble Mr. Javerilal U. Yajnik seconded—

"That the following seven works only be included in the estimates for works which have yet to receive the sanction of the Corporation :—

Sewerage—

1.	Sewerage of the Mazagon District on gravitation system	Rs.	3,32,661
2.	Raising sewage in Queen's Road Sewer	„	2,00,256
3.	Sewerage of Malabar and Khamballa Hill Districts on gravitation system	„	1,57,026
4.	Do. of Fergusson Road and Chinchpokli District on gravitation system, including pipe-sewers in Fergusson Road and Bapty Road ...	„	93,572
5	Do. of Old Race Course District on gravitation system	„	40,815
			8,24,330

Water Works—

6.	Improvements of the outlet towers, Vehar and Tulsi	Rs.	32,575

Miscellaneous—

7.	Rebuilding chimney of the Incinerator, Workshops	„	35,000
		Rs.	8,91,905

or say, Rs. 90,00,000, of which Rs. 5,81,000 to be raised in 1895-96."

Amendment moved by Mr. Rebsch, seconded by Capt. Walshe—

"That the estimates be passed at Rs. 14,90,883, as entered in the statement."

On a division, there were 4 votes *for* and 4 votes *against* the *amendment* which was *lost* by the vote of the Chairman.

The original motion was *carried* and the total estimate of income on account of Loan Works was entered at Rs. 15,09,898-1-4, including the opening balance of Rs. 3,52,398-1-4.

On the motion of the Hon'ble Mr. Javerilal U. Yajnik, it was resolved that the item of Rs. 2,400, to provide for an increase of Rs. 200 per mensem to the Drainage Engineer on special duty, be struck out, and that the pay of that officer be passed at Rs. 1,200, the same as the grant for the current year.

The total of the estimated expenditure for Loan Works was passed at Rs. 11,67,580, leaving a closing balance of Rs. 3,42,318-1-4 on 31st March 1896, as per detailed statement No. 13.

The establishment charges for the works to be carried out as thus passed on account of works, amount to Rs. 64,525.

It was agreed that the following papers which had been referred for consideration in connection with the framing of the Budget estimates be referred to the Commissioner for remarks.

Extract from the Resolution of the Corporation, No. 8297, dated 5th instant, as under :—

"That the Corporation are of opinion that a small market should be built on some convenient site between Chaopati and Gamdevi, and that the Standing Committee be requested to consider the question of making a financial provision for such market in the next Budget."

Resolution of the Corporation, No. 8898, dated 15th instant, as under :—

"That the Corporation consider it desirable, for a better appreciation of the Annual Budget Estimates,

that the amount estimated under the head of General Tax and other taxes for the budget year be exhibited separately from the amount of outstanding for previous years under their respective heads. That the above resolution be communicated to the Standing Committee."

Resolution of the Corporation, No. 8903, dated 15th instant, as under :—

"That the following be forwarded to the Standing Committee for favour of report :—Memorandum to the Secretary, No. 16813, dated 23rd October 1894, from the Acting Commissioner, forwarding, with reference to the Corporation's Resolution No. 13054, dated 1st March 1894, report from the Superintendent, Municipal Gardens, on the state and condition of the Sir Cowasjee Jehangir Garden at Mahim and its improvement, together with plans and estimates prepared by the Executive Engineers."

Regarding the proposed improvement of Chinch Bunder Road between the points marked A & B on tracing accompanying letter No. 13929, dated 18th September last, from the Acting Commissioner to the Secretary, estimated to cost Rs. 20,280.

The Hon'ble Mr. Javerilal proposed that the question be referred to the Commissioner. To this an amendment was proposed by Mr. Viegas to the effect that the question be considered now.

On a division, the original motion was *carried.*

Regarding the question of showing the estimates of taxes apart from the amounts outstanding under their respective heads, it was agreed that the Commissioner be asked to report on the point.

The Commissioner drew attention to the fact that although the pay of the appointment need not be included in the estimates, the appointment of Chief Surveyor Engineer's Budget should be retained in the schedule (page 30) until the holder of the appointment, now on other duty, is appointed to some other situation.

It was agreed that the appointment in question be retained in the schedule.

Proposed by Mr. Shroff "that the designation of the office Manager, Corporation's and Standing Committee's office be changed to that of Assistant Secretary."

Not seconded.

BOMBAY, *5th December* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M. ; COWASJEE HORMUSJEE, ESQ., G.G.M.C. ; THE HON'BLE MR. FAZULBHOY VISRAM ; HURKISONDAS NURROTUMDAS, ESQ. ; THE HON'BLE MR. JAVERILAL UMIASHANKER YAJNIK ; KAIKHOSRO N. KABRAJEE, ESQ. ; K. M. SHROFF, ESQ. ; S. REBSCH, ESQ., ASSO., M.I.C.E. ; ACCACIO G. VIEGAS, ESQ., L.M. & S. ; R. H. VINCENT, ESQ., C.I.E. ; CAPTAIN W. P. WALSHE.

H. A. ACWORTH, ESQ., I.C.S., Commissioner ; and the SECRETARY.

The signing of the minutes of the meetings held on the 28th and 30th ultimo was postponed.

No. 9672. The seal of the Corporation was affixed to a lease of ground at Agripada to Mr. Abdula Moobarak ; and memorandum No. 19817, dated 24th ultimo, from the Commissioner, regarding the same, was *recorded.*

No. 9673. *Resolved* : "That, as applied for by the Commissioner in his memorandum No. 20572, dated this day, sanction be given to the cutting off of water-connections as per list submitted therewith."

No. 9674. *Resolved* : "That, as applied for by the Commissioner in his letter to the Secretary, No. 19375, dated 19th ultimo, sanction be given to the payment of bhatta allowance to the workmen drawing Bombay rates of pay, and of payment for over-time work at the following rates, when they are sent out into districts beyond Bombay by the Water Engineer for short periods ; 6 annas per day to fitters, painters, blacksmiths, carpenters, plumbers and masons, drawing pay from Rs. 15 to Rs. 35 per month ; 4 annas per day to connection men, porters and labourers drawing pay from Rs. 9 to Rs. 14 per month. The charges on this account to be met from the grant for Contingencies Water Works."

Considered letter No. 19565, dated 21st ultimo, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to state that the steam pumping engine made by Messrs. Shand, Mason & Co, which was originally presented to the Municipality by Mr. Rastamji Jamsetji Jeejeebhoy in the year 1866 or 1867, and which was the first fire engine in use in Bombay, requires repairs. The Superintendent of Workshops, in whose charge it is at present, reports that a large sum of money will be required to put it in good repair, and that he does not think that it is worth the expenditure, which is estimated from Rs. 700 to Rs. 800, as the engine is not of the best type made for pumping a comparatively small quantity of clean water to a high pressure, it has always been unsuited for the work required of it by the Workshops Department, as they are generally called upon to pump a large quantity of dirty gritty water with a low-lift. Such being the case, the engine has always been very expensive to work and keep in repair, and the profit made by letting it out on departmental work, at the rate of Rs. 25 per day, has been small.

The Executive Engineer, therefore, supports Mr. Hewett's recommendation to purchase a portable engine and boiler with a 4" centrifugal pump with accessories and 20 feet of 4" India-rubber suction hose at a total cost of Rs. 1,330, to be apportioned as follows :—Rs. 855 for the purchase of engine and boiler from Messrs. Volkart Brothers, Rs. 400 for the purchase of centrifugal pumps with accessories from Messrs. John Fleming & Co., Rs. 75 for the purchase of rubber suction hose from ditto. By the purchase of this plant the Superintendent of Workshops states that he will be able to reduce the charge for the engine much below the present rate of Rs. 25 a day, and thereby the workshops will derive more revenue by letting it out on reasonable terms to private parties for pumping out wells, &c. The engine will also be very useful for ventilating sewers when important cleaning operations are in progress, if the fan which the workshops have be put on the engine platform in place of the pump. There is a small dynamo at the workshops, which might also be driven by this engine and used at night when any important water-connections are being made, or for lighting the sewers in a perfectly safe manner while being cleaned. Messrs. Volkart Brothers have for sale a portable engine and boiler of the exact type which we require, and which we can obtain for Rs. 855, though Rs. 1,500 were asked for them. This is one main reason for making this application now, and, under all the circumstances, I request the sanction of the Standing Committee and the Corporation to the purchase of the plant herein referred to, at a total cost of Rs. 1,330, to be met out of Surplus Cash Balance.

The state of the Surplus Cash Balance is as follows :—					
Surplus ascertained after the closing of accounts for 1893-94				Rs. 1,80,786	0 0
Out of which, expenditure, excluding temporary advances to be adjusted hereafter, has been sanctioned to the extent of	Rs. 1,30,939	10	9		
Amo nt recommended for sanction	„ 31,270	0	0		
				Rs. 1,62,209	10 9
Available balance „				18,576	5 3

I have, &c.,

H. A. ACWORTH, Commissioner.

No. 9675. *Resolved* : "That letter No. 19565, dated 21st instant, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the purchase, for the Workshops, of a portable engine and boiler with a 4" centrifugal pump with accessories and 20 feet of 4" rubber suction hose, at a total cost of Rs. 1,330, to be apportioned as follows :—Rs. 855 for the purchase of engine and boiler from Messrs. Volkart Brothers, Rs. 400, for the purchase of centrifugal pump with accessories from Messrs. John Fleming and Co., and Rs. 75 for the purchase of rubber suction hose from ditto. The cost to be met from Surplus Cash Balance."

No. 9676. *Resolved* : "That, as applied for by the Commissioner in his memorandum No. 20065, dated 29th ultimo, from the Commissioner to the Secretary, the Corporation be recommended to sanction the writing off of Rs. 1,026-4-0 from the live stock return of the Fire Brigade Department, being the book-value of one horse that died,* and one mare† that was sold on 13th October last."

No. 9677. *Resolved* : "That, as applied for by the Commissioner in his letter No. 19958, dated 27th ultimo, sanction be given, under section 169(1) (*b*) of

* Purchased 21st February 1881.
† Do. 7th April 1880.

the Municipal Act, to a charge of Rs. 2 per day being made for water supplied to the Bombay Tramway Company from Municipal stand-pipes for road-work in connection with the Company's track extension to Ripon Road."

No. 9678. *Resolved* : "That, with reference to letter from the Commissioner to the Secretary, No. 20216, dated 30th ultimo, the Standing Committee approve of the charging of a compounded rate equal to the value of water consumed at annas four per 1,000 gallons, for water supplied to the Executive Engineer, Presidency, for watering the following roads in his charge :—(1) The Queen's Parade Road, (2) the Bandstand Circle, (3) the two cross-roads at Marine Lines, (4) the road between the Cooperage and Wellington Lines, and (5) the road on the Seaface near the Church Gate Station."

No. 9679. *Resolved* : "That, with reference to the letter to the Secretary, No. 20217, dated 30th ultimo, from the Commissioner, the Standing Committee approve, under the terms of section 185 of the Municipal Act, of his compounding with the owners of licensed public conveyances for the payment of wheel-tax for the calendar year 1895, as under :—

"For each labour-cart, with one pair of bullocks, Rs. 20 per annum, the monsoon quarter (July, August, and September) not to be charged for.

"For each victoria and two horses Rs. 63 for the whole year—no deduction to be allowed for the monsoon months.

"For each reckla, with one pair of bullocks, Rs. 20 for the whole year—no deduction to be allowed for the monsoon months."

Considered letter No. 20247, dated 30th ultimo, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to state that the Nakhoda Tank was handed over to the Municipality by Government, under their Resolution No. 206 C. W.—697 of the 2nd June 1879, Public Works Department. On the 25th September of the same year Government were informed that as the tank was a large one, and if the

Municipality were to take it over and keep it in repair and the water therein clean, all the ground between it and the road as well as the small area around it should be made over to the Municipality. Government, in return, informed the Municipality, under their Resolution No. 366 C. W.—1213 of the 4th October 1879, Public Works Department, that the ground between the tank and the road had already been given to the St. Xavier's College, but that they were willing to make over to the Municipality, with the tank, the small area around it, which was reserved for seats and for access. Eventually the ground forming an access to the tank was handed over to the Municipality under Government Resolution No. 443 C. W.—1546 of the 23rd September 1879. On the 17th September 1881, Government inquired whether the Municipality would have any objection to hand back the tank to them, provided that a suitable monumental fountain to be supplied with water from Vehar or Tulsi and to be suited to the wants of all classes were erected in its stead in the immediate neighbourhood. They also added that the tank interfered with the advantageous extension of the St. Xavier's College premises, and that on that account it was extremely desirable that the land which formed the tank should be reclaimed. In reply, Government were informed that the tank and the adjoining land had never been legally conveyed to the Corporation, nor were they declared public by the Municipal Commissioner, and as the tank was not required for public purposes, there was no objection to the retransfer. Government subsequently obtained the opinion of the Advocate-General that the retransfer of the tank was illegal. The tank thus remained in charge of the Municipality. On the 25th February 1892, the Executive Engineer, Presidency, drew my attention to the fact that the Municipality had utilized the ground, transferred to them by Government, for purposes of access to the Nakhoda Tank for the deposit of road-metal, and that a great portion of it was fenced in for that purpose, and requested that the sanction of Government might be obtained to applying the ground to a purpose foreign to that for which it was allotted. The fence was consequently removed and the sanction of Government was requested to the ground being used for depositing road-metal, as it served as a convenient feeder to the block of streets founded by Kalbadevi Street, Abdul Rahiman Street, and Carnac Road. Considerable correspondence has taken place, and Government have now proposed that the ground marked E, F, G, H, on the accompanying plan, should be leased by the Municipality for a period of 25 years at a rent of annas 4 per annum, on condition that the land is used as a road-metal depôt and that the Municipality construct the road as scored in red in the plan. The ground marked E, F, G, H, measures 537 square yards and the yearly rent for it amounts to Rs. 134-25. The Executive Engineer, Municipality, estimates the

cost of constructing the road, providing surface drain and lamp-posts at Rs. 5,152 and the annual maintenance and lighting charges at Rs. 304.

As I consider that the proposal is one that should be accepted, I beg to recommend it, and request the sanction of the Standing Committee and the Corporation to the acceptance of the terms proposed by Government. If approved, the cost of the road should be included in the coming year's budget. It is of great importance to the Municipality to obtain ground here for a metal depôt, and it is worth our while to pay the small rent demanded and to construct the road. The charge of maintaining the road need hardly be included as a factor for consideration, as we should have to maintain it even if it was constructed by Government.—I have, &c.,

H. A. ACWORTH, Commissioner.

Proposed by the Hon'ble Mr. Fazulbhoy Visram, seconded by S. Rebsch, Esq.—

"That letter No. 20247, dated 30th ultimo, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the leasing from Government, for the period of 25 years, of land situate to the north-east of the Nakhoda Tank, shown in yellow colour and marked E, F, G, and H, on the tracing marked "A," dated this day, and filed in supplement to minute books, admeasuring 537 square yards, or thereabout, at an annual rental of 4 annas per square yard, on condition that the land is used as a road-metal depôt, and that the Municipality construct the road, scored in red colour on the plan, leading from Carnac Road to the said land.

No. 9680.

"That, subject to such approval, the cost of constructing the road with drainage and lamps Rs. 5,152, lighting charges for the year Rs. 304, and the proportionate rental payable to Government, in respect of the annual rental of Rs. 134-4-0, be defrayed from Surplus Cash Balance."

Carried by 8 votes *against* 2 votes.

Resolved: "That, as applied for by the Commissioner in his letter to the Secretary, No. 20351, dated 3rd instant, the Corporation be recommended to sanction the grant of Rs. 900, from Surplus Cash Balance, for payment of compassionate

No. 9681.

allowance, payable under the Pension Regulation, to Mithibai, widow of the late Mr. Manekji Edulji, Building Inspector, Executive Engineer's Department."

Considered letter No. 20352, dated 3rd instant, from the Commissioner to the Secretary, as under:—

SIR,—I have the honour to report that out of the total grant of Rs. 18,000 sanctioned by the Corporation under their resolutions Nos. 2881, 3335 and 6531 of the 14th and 21st June and 10th September 1894, respectively, there is a saving, amounting to about Rs. 3,000 up to the end of November last, caused by the carting contractor not being able to supply to the Health Department a sufficient number of carts with bullocks and on account of other deductions. The Health Officer has, therefore, proposed to continue the hiring of carts with bullocks for such period as the available savings will permit, the department being still short of the bullocks. I have, therefore, to request the approval of the Standing Committee and the Corporation to this arrangement, which I have authorized in anticipation of sanction.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 9682. *Resolved*: "That letter No. 20352, dated 3rd instant, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the continuance of the hiring of carts with bullocks for the Health Department, as sanctioned in the Corporation's resolutions Nos. 2881, 3335 and 6531, dated 14th and 21st June and 10th September 1894, for such period as the available savings on the grant already sanctioned will permit."

No. 9683. *Resolved*: "That the following be *recorded*:—Letter No. 20348, dated 3rd ultimo, from the Commissioner to the Secretary, reporting that the right of cutting grass from and cultivating the two plots of land to the north of the Byculla Club, lately acquired from Sir A. D. Sassoon, has been sold by auction for one year, from the 1st December 1894 to 30th November 1895, to one Lakshuman Raghoo for Rs. 140. The area of the land is 30,126 square yards, or thereabout."

Considered letter No. 20209, dated 29th ultimo, from the Commissioner to the Secretary, as under:—

SIR,—Referring to Standing Committee's resolution No. 9160 of 21st instant, I have the honour to say that I quite concur in

thinking that the work of house-connections at Parel should be no longer deferred, and I fully intended to take the matter up on my return from leave, unless I found that the House Connection Committee had made their report, and that there was anything in that report which militated against my intention. I find that the Committee has not reported; and I propose, therefore, to proceed with that work without further delay. The Standing Committee and Corporation are well aware that I have deferred action merely in the expectation and hope that some tangible result would emanate from the prolonged deliberations of the House Connection Committee. I do not at all agree with the proposal of my *locum tenens* that the Corporation should be asked to vote money for the work. It ought to be done at the cost of the house-owners, and I hope the Corporation will never again vote money for house-connection work as they did in the case of the 1st Drainage Section. However flourishing the finances of the Municipality may be, they are not equal to the task of liquidating private charges as well as public charges all over the City, and Dr. Weir's proposal seems to me to have been made without adequate consideration. I recommend, therefore, that the 2nd para. of item No. 32 on December Agenda of the Corporation be withdrawn by the Chairman.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 9684. *Resolved* : "That letter No. 20209, dated 29th ultimo, from the Commissioner to the Secretary, be forwarded to the Corporation, with reference to the Standing Committee's Resolution No. 8720 of the 14th November last, and that the Chairman be asked to withdraw the second portion of that resolution from item 32 on the Agenda Paper of the Corporation for the December meeting."

No. 9685. *Resolved* : "That the following be *recorded*:—Letter No. 20212, dated 30th ultimo, from the Commissioner to the Secretary, reporting that he has authorized the Water Engineer to purchase twenty $\frac{1}{2}$" meters from Messrs. Walsh, Lovet & Co., at Rs. 36-2-5 each. The total cost of Rs. 723-0-4 will be debited to the Water Works material grant for the current year."

Considered memorandum No. 19955, dated 27th ultimo, from the Commissioner to the Secretary, as under :—

Memo.—Standing Committee's resolution No. 8728, dated 14th November 1894.

This is one of the most important set-backs in the city, having regard to its size. Probably no equal area of public street is equally crowded with that in front of this building.

The proposal of the Maharaj's solicitors is absolutely inadmissible. It is that we should defer the set-back until the line of set-backs on both sides along the whole length of the street is taken, in other words, for probably a century. The concession involved in deferring a set-back is granted only when the set-back is of no immediate public importance, and never for such an indefinite period as the clearance of both sides of a street along the set-back line. In this case the importance of immediately enforcing the set-back is beyond all question. As regards the 7th para. of the solicitors' letter, I gave orders on 8th August for the enforcement of the set-back, and an entry notice was served on the party by the Executive Engineer on 25th idem. The solicitors then wrote to the Executive Engineer, asking for a fortnight's time to allow of their applying to the High Court for an injunction, which was granted. The injunction has never been applied for. A further fortnight's time was then applied for, because the Maharaj was on a pilgrimage, and this was granted. This expired on Saturday, 20th October, and on Monday, 22nd, the Executive Engineer's inspector, under stringent orders from the Executive Engineer, proceeded to the work of demolition. The Commissioner's order of 19th October to stay proceedings did not reach the superintendent of the division till 2 p. m. on 22nd, and the inspector was telephoned to at once stop action. It is true that the Commissioner's letter of 19th was shown to the inspector on 22nd by the Maharaj's agent, but the inspector had positive orders from his superior and obeyed those orders, and was quite right technically in doing so. He had been the object of anonymous accusation as a disciple and favourer of the Maharaj, and this, as the Executive Engineer says, "made him nervous, so that he refused to stop without orders from his immediate superior." No one can blame the inspector on this account.

H. A. ACWORTH, Commissioner.

No. $\frac{N}{491}$

BOMBAY, *12th November* 1894.

To THE SECRETARY,

THE STANDING COMMITTEE OF THE MUNICIPALITY, BOMBAY.

SIR,—On behalf of our client, Shri Chimunlalji Gunshamjee Maharaj, we have the honour to address you this letter, which we request that you will be good enough to lay before the Standing Committee at their next meeting for disposal. (1) Our client, in or about the month of June last, converted into a terrace the roof of a shed or servants' quarters belonging to him, abutting

on the Bhuleshwar Road, as the roof wanted some repairs, and in regard to this matter he had received a notice from the Executive Engineer of the Municipality, requiring him to pull the building down, alleging that the work done was that of constructing shops, and that the work was being done without the permission of the Municipality. (2) Our client did not comply with the notice, as he believed that the structures which was being built was not such as rendered it necessary for him to obtain any permission from the Municipality, and, therefore, that he (our client) could not be called upon to remove the same, and that in respect of such structure he could not (Qy. be ?) compelled to give up to the Municipality land for a set-back. (3) Our client, however, in order to avoid unnecessary litigation, proposed to the Municipal Commissioner, through our Mr. Smith, that if our client was allowed to erect shops in the place of the old servants' quarters, where he has now caused a terrace to be built instead of a roof, he would be willing to enter into an agreement with the Municipality that he would set-back his buildings, and hand over the land required by the Municipality as soon as the line of set-back on both sides of the road was carried out, as regards the other properties there, without claiming any extra compensation in respect of the expenses which might have been incurred by him in building the said shops. (4) Our client states that such agreements have been entered into by the Municipality with several owners of property in the said locality, who have built their houses as well as those who have made alterations in their buildings. (5) It appears that the Executive Engineer did not take into favourable consideration the proposals contained in the third para. of this letter, but without giving any notice to our client, laid the matter before the Standing Committee and obtained their sanction to the pulling down of the terrace constructed by our client. (6) Our client thereupon caused a plan to be submitted to the Municipal Commissioner for sanction for building 12 shops on the same land, but this plan has not yet been passed. (7) Our client further caused a letter to be written on the 18th ultimo, addressed to the Municipal Commissioner, to which our client, for brevity's sake, craves leave to refer, a copy of which is sent herewith, to which an answer was received from the Acting Municipal Commissioner, a copy of which is also forwarded herewith, dated 19th October 1894, informing us that he had requested the Executive Engineer to stay the notice of demolition until further orders, but the Municipal workmen, on or about the 22nd of October last, demolished the terrace, although our client's agent urgently requested them not to do so, and showed them the letter received from the Acting Municipal Commissioner, whereupon a letter was written to the Municipal Commissioner on the 22nd ultimo in the matter. Mr. Smith, of our firm, attended on the Municipal Commissioner, when it was stated

by the Acting Commissioner that it was not the intention or desire of the Municipality to cause any inconvenience to our client.

Our client, therefore, begs to submit to the Standing Committee this application, and requests for sanction to the proposal made in the 3rd para. of this letter.—We have, &c.,

LITTLE, SMITH, NICHOLSON & BOWEN,

Solicitors, High Court.

Proposed by S. Rebsch, Esq., seconded by Cowasjee Hormusjee, Esq.—

No. 9686.

"That, in reply to their letter dated 12th ultimo, on behalf of Shri Chimunlalji Guneshamji Maharaj, Messrs. Little, Smith, Nicholson and Bowen be informed that the Standing Committee decline to sanction an agreement of the nature suggested therein."

Carried.

Considered the following :—

No. 13289 OF 1894-95.

BOMBAY, *6th October* 1894.

TO THE COMMISSIONER.

SIR,—With reference to your No. 5845 of 9th June 1894, I have the honour to report that, in my opinion, the 9" main proposed to be laid in Connaught Road from Parel Road to the new Port Trust Road, is too large for the reasons stated below, and that a 6" main would be quite ample.

2. The proposed main is intended to be supplied from the 48" Tansa main *via* the Arthur and Parel Roads. The Tansa main brings to the city at present 22 millions of gallons of water in 24 hours, which will be reduced after some time to 20 millions as the pipes become old. This total quantity of water is supplied to the market, Chuckla, Dhobi Talao, Phanaswadi, Bhuleshwar, Khara Talao, Kumbharwada, Khetwadi, Girgam, Chowpatty and portions of Mahaluxmi, 2nd Nagpada, Kamathipura, Tardeo, Byculla, 1st Nagpada, Parel and Warli districts. These districts are mainly supplied through two 27"branches on the 48"main near the Chinchpokli level-crossing, the eastern branch supplying Parel, Sion and portions only of Mazagon and Tarwadi districts, the remaining districts being supplied mainly through the western branch. The eastern branch takes at the very outside about 5,760,000 gallons in 24 hours, or 4,000 gallons per minute, *i.e.*, more than one-fourth of the total Tansa supply. This 27" main has three main branches (besides other smaller ones), *viz.*: (1) a 24" main to Bhoiwada sluice-house, (2) a 10" main to Sewri and Ghorupdeo,

and (3) a 24" main to Byculla. We have to deal with the last, and although it takes less than one-half of the whole supply, it may be assumed to be supplying that quantity, *i.e.*, 2,380,000 gallons in 24 hours.

3. The population of Bombay in 1892 was 821,764 according to the Census taken in that year, and the number of water service connections at that time was 17,634, which gives a population of 46·6 persons, say 47 per each water connection. The total length of the proposed main being 3,090, there would be about 100 connections at the rate of one per every 30 feet of length. The available daily supply of water for the City being 33·50 million gallons and the population about 8¼ lakhs, the available quantity per head is about 40 gallons. Thus the Connaught Road main will have to carry

$$\left(\begin{matrix}\text{persons}\\47\end{matrix} \times \begin{matrix}\text{connections}\\100\end{matrix} \times \begin{matrix}\text{gallons per head}\\40\end{matrix}\right)$$

188,000 gallons for the district to be supplied by it. Taking the whole quantity required will be drawn in eight hours, the main will have to carry 568,000 gallons in 24 hours, or 392 gallons, say, 400 gallons per minute. In order that the 6" main along Connaught Road from Parel Road to the new Port Trust Road at Ghorupdeo may deliver 564,000 gallons midway between its two extremes, it is necessary to ascertain what the loss of head will be. This loss will be 75·30 as shown below :—

Diameter of main in inches.	Length of main in feet.	Diameter per main in gallons.	Loss of head in feet.	Remarks.
48	49,130	.....	30*	* 9⅛ miles at 3·2 per mile.
27	1,120	4,000	1·45	
24	740	2,000	0·43	
16 & 14	1,020	2,000	1·54	
16	1,170	2,000	5·16	
			38·58	
6	1,545	400	36·72	
	Total	loss of head...	75·30	

4. The reduced level of the 48" main at its head at Ghatkopur being 305·47 T.H.D., the 6" main will discharge 400 gallons per minute at 305·47—75·30=230·17 T. H. D. By similar calculations, if the quantity to be discharged through the 6" main were double, the total loss of head would be 185·46 instead of 75·30; therefore the water will be delivered at (305·47—185·46)=120·01 T.H.D. The mean level of Connaught Road being 102· T. H. D., the 6" pipe will deliver 400 gallons per minute at an average height of (230·17—102)=128 feet above road-level, or 800 gallons per minute at a height of (120—102)=18 feet.

5. One of the reasons adduced for laying a main larger than 6" is that one or two 4" branches will probably be required to be laid from it for the Victoria Gardens, but no tangible proofs are given for this prospective want. There are already one 9", two 4" and one 3" branches laid in the Gardens from the Parel Road 16" and 14" mains, and if more were required, they might be made with the same main.

6. Another argument adduced in favour of a larger main is that it is to connect the Parel Road 16" main with the proposed 18" or 24" main in the new Port Trust Road at Ghorupdeo, and to supply either main in case of an accident; but it is apparent that a 9" main is too small to connect and supply mains of 16" and 18" in diameter, and its position is such that it cannot be of much use except when the burst is to the north of the connecting main. In the case of a burst in any positions of the 16" or 18" mains, the remaining length of the mains can be fed from the Bhandarwada Reservoir. For these reasons, I am of opinion that a 6" main will be sufficient.—I have, &c.,

M. C. MURZBAN, Executive Engineer.

No. 16221 of 15*th October* 1894.

Copy forwarded to the Standing Committee, in reference to their resolution No. 2479 of the 6th June last.

T. S. WEIR, Acting Commissioner.

No. 9687. *Resolved*: "That letter No. 5167, dated 1st June last, from the Commissioner to the Secretary, and memorandum No. 16221 of 15th October last, from the Acting Commissioner to the Secretary, be forwarded to the Commissioner, with a view to his informing the Committee whether the estimates in question cannot, by 6" mains being used in place of 9" pipes, be revised, and whether the 6" mains would meet the necessities of the case."

No. 9688. *Resolved*: "That the report of the Health Officer, for the 1st quarter of 1894, be passed on to the Corporation."

Considered the following :—

BOMBAY, 15*th November* 1894.

The Sub-Committee, appointed by the Standing Committee on 31st October 1894, to inspect the premises mentioned in the Acting Commissioner's letter to the Secretary, No. 16551, dated 18th ultimo, visited the place in question in company with the Acting Commissioner on the 31st idem, but inasmuch as the Acting Commissioner has withdrawn his proposal, the Sub-

Committee have only to remark that in their opinion the site is unsuitable for the purpose of stables and chawls for the Health Department.

S. REBSCH.

I really am unable to understand the action of the Acting Municipal Commissioner in this connection. He was very keen on this point and strongly advocated the leasing term and of even purchasing this site for the Health Department. I inspected the site in company with my colleagues, and I think the site is *eminently suited* for the Health Department stables and night-soil carts. The removal of the stables and carts at present located in the 6th Kamatipura Street, would have cleaned that part of the street, which ought never to have been so obstructed. The Municipality, I contend, has no right to thus permanently obstruct public thoroughfares and prove a source of obstruction and annoyance to a class of people living in that locality who cannot raise their voice against such iniquitous action on the part of the executive. I cannot ascribe any reason to the Commissioner's withdrawal from such a useful and convenient and economic site, except on the hypothesis that the influence from the Byculla Club and the influential residents of that part of the city seemed to be too powerful for him to withstand. It is really a matter of the greatest regret that such influence should have presented and dissuaded the executive from doing their duty to the public in general and to the poor, helpless residents of Kamatipura in particular.

The sanitary condition of the Health Department stables in Kamatipura is simply disgraceful, and the sooner prompt measures are adopted to remedy this extremely undesirable state of things the better it is for the executive and the poor people who are compelled to live in such a miserable place.

On these grounds, I dissent from the report of my colleagues, and I trust this will be placed before the Standing Committee.

BHALCHANDRA KRISHNA.

16*th November* 1894.

The Acting Municipal Commissioner assigns no reasons for withdrawing his proposal. He ought not to have put the Sub-Committee to the trouble of visiting the site, if he was not prepared to carry out his proposal. However, the visit of the Sub-Committee to the locality in question has brought to the personal knowledge of certain members of the Standing Committee the most deplorable state of sanitary affairs in certain lanes of Kamatipura, and the most inadequate stables provided for Municipal bullocks. In my opinion the Health Department is the greatest nuisance creating department in the whole city, and I wonder that house-owners in that locality do not prosecute the Municipality for creating nuisance in the very

front of their properties. It is simply disgraceful on the part of the executive to continue the nuisance in the locality in question, and it is cowardice on their part to be afraid of the outcry from any influential quarters while trying to mitigate the nuisance by the selection of an appropriate spot for the purpose. If the feeble voice of the residents of Kamatipura fail to be heard in the Standing Committee and Corporation, in my opinion, it is high time that Government should interfere and enforce section 518 of the Municipal Act, and compel the Municipality to do the needful.

K. M. SHROFF.

17*th November* 1894.

I am quite in accord with Dr. Balchandra and Mr. Shroff that the maintenance of the stables, etc., at Kamatipura is a most serious nuisance and a great inconvenience to the poor people who have to reside round about the place. But is it an improvement or would it be an advantage to remove a most objectionable establishment, from amongst people who by usage and partly also by their style of living are more or less in consonance with it, to a place around which people of a better class are living?

The latter would surely make an outcry, and it is not at all improbable that the Municipality would by law be prevented from making a nuisance in a place where none has hitherto existed. For whatever precautions be adopted, there can be no doubt that the locality, and Bellasis Road especially would swarm with the numerous progeny of the employés of the Health Department, and what is now a decent thoroughfare and a respectable locality would soon become the opposite. I think the Acting Municipal Commissioner acted wisely in withdrawing his proposal.

R. H. VINCENT,
Commissioner of Police.

24*th November* 1894.

No. 9689. *Resolved*: "That the minutes of the sub-committee on the question of the proposed site for the Health Department stables at Bellasis Road, be *recorded*.

2. "That the Commissioner be asked to favour the committee with his own opinion on the subject."

In accordance with notice, it was

Proposed by the Hon'ble Mr. Javerilal U. Yajnik—

"That the Standing Committee hope that the Municipal Commissioner, in preparing his budget estimates

in future, will so frame his proposals as to result in the year's income balancing as far as possible the year's expenditure, in conformity with the principle laid down by the Committee last year and approved by the Corporation."

The motion was seconded by Bhalchandra K. Bhatawadekar, Esq.

After discussion, the proposition was withdrawn.

Resolved: "That letters dated 22nd September and 4th October 1894, respectively, from Messrs. Little, Smith, Nicholson and Bowen, and the Acting Commissioner's letter No. 16163, dated 13th October last, regarding the charge for water supplied to the Madhowji Dharamsi Manufacturing Company be forwarded to the Commissioner for favour of remarks."

No. 9691.

Considered the following :—

Letter No. 19883, dated 26th ultimo, from the Commissioner to the Secretary, as under :—

SIR,—In reference to your No. 8680 of the 12th instant, I have the honour to state that I have nothing to add to my No. 13546 of the 11th September last, upon which the Standing Committee and the Corporation have arrived at resolutions Nos. 7003 and 8298 of the 19th September and 5th November respectively. The Executive Engineer has obtained explanation from Mr. Pundlik Ganesh, Divisional Superintendent, and Plan Clerk Bhikaji Kashinath in regard to the allegations made in the applicant's letter, on the perusal of which the Executive Engineer and myself have come to the conclusion that the party's complaint is groundless.—I have, &c.,

H. A. ACWORTH, Commissioner.

BOMBAY, *12th November* 1894.

To THE CHAIRMAN, Municipal Corporation Committee.

GENTLEMAN,—I now acknowledge receipt of your letter No. 8542, dated 8th November, showing the rates offered me for ground taken up by the Municipality, and stating that the Municipal Solicitors advise that the date when the compensation first became claimable within the meaning of section 504 of the Municipal Act was the day on which possession of the land was taken in each case by the Municipality, and that I am now precluded from applying to the Chief Judge of the Small Causes Court for an increase in the rate.

I now beg to state as follows :—

I. : Samuel Street.—Mr. Pundlik, Superintendent of Buildings, had offered me personally Rs. 50, and I refused, as the Municipality had given others at the rate of Rs. 100 per square yard. When I wished to examine the old records, I was refused. Mr. Bhikaji seems to be master and do as he pleases.

II. Hussun Khan Khalifa Street's rate is Rs. 20 and not, as offered me, Rs. 10. Mr. Bhendy, plan clerk, has given one Bhoree Khoja and one Kokanee the above rate (*i.e.*) Rs. 20 per square yard, and not Rs. 10.

III. Nizampura Street's rate is Rs. 30, which was given to one Mr. Bomanji Hormusji, Municipality offered Rs. 25 and he took Rs. 30 per square yard, in Mr. Kaikushrew, superintendent's time, now the Rs. 10 offered me is not the real rate.

Therefore I now request you will personally examine the records of 1891-92 and 93 and fix your rates accordingly to them and not depend on Mr. Bhikaji, plan clerk. Therefore I request a favourable and early compliance, as on receiving which, if not favourable, will further apply to Government, and oblige.—I beg, &c.,

i.e. AHMED MAHOMED SURTI,
C/o MAHOMED EBRAHIM VAUG,
No. 21-23, Nizampura Street, C.D.

No. 8680 OF 1894-95, *12th November* 1894.

Forwarded to the Acting Municipal Commissioner for favour of remarks.

H. W. BARROW, Municipal Secretary.

No. 18914 OF *13th November* 1894.

Forwarded to the Executive Engineer for favour of report and return.—By order,

H. HOLMES, Acting Assistant to Commissioner.

No. 9692. *Resolved*: "That, with reference to letter dated 12th ultimo, from Mr. Ahmed Mahomed Surti, regarding the compensation payable to him for land acquired from him in different localities for street improvement purposes, the Corporation be informed that the Commissioner states that on inquiry it has been ascertained that the allegations made by the applicant are groundless."

No. 9693. *Resolved*: "That the following be referred to the Commissioner for remarks :—Letter dated 29th ultimo, from Mr. Cumber Ali Moozaffer Ali, on the subject of the demolition of his property at 2nd Cooper Street."

The following return was read and *recorded* :—

Return of fires at Kolsa Street, Paidhowni, and Cooper Street, Bendy Bazaar, and British Hotel Lane, Apollo Street, forwarded with the Commissioner's memorandum No. 19963, dated 27th ultimo, 1894.*

The following statement† was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 2nd December 1894.

No. 9695. *Resolved* : "That, as applied for by the Commissioner in his letter to the Secretary, No. 20431, dated 4th instant, sanction be given to the acceptance of the tender of Messrs. Walsh, Lovett & Co. for the supply of meters and fittings for the Water Works Department at a cost of Rs. 16,886-9-8.

"The cost to be debited to the advance of Rupees one lakh for the purchase of such fittings."

No. 9696. *Resolved* : "That memorandum No. 20417, dated 4th instant, from the Commissioner to the Secretary, on the subject of renewal of lapsed grants, be circulated and brought on for consideration at a future meeting."

No. 9697. *Resolved* : "That, as applied for by the Commissioner in his letter to the Secretary, No. 20514, dated this day, sanction be given, under section 169 of the Municipal Act, to the charging of a compounded sum at the rate of annas four per 1,000 gallons for water supplied to the camp in connection with the Military Tournament to be held on the Esplanade this month."

No. 9698. *Resolved* : "That, as applied for by the Commissioner in his memorandum No. 20510, dated this day, sanction be given to the transfer of Rs. 173, from savings in the grant for Conservancy, Branch, 10 Halalkhor Branch, H. Lighting, to same branch, cost of working Garlick's Incinerator, contingencies to meet the cost of a water tank to feed the boiler of the incinerator."

* See Appendix C. † See Appendix B.

BOMBAY, 12*th December* 1894.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M. ; COWASJEE HORMUSJEE, ESQ., G.C.M.C. ; THE HON'BLE MR. FAZULBHOY VISRAM ; HURKISONDAS NURROTUMDAS, ESQ. ; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK ; KAIKHOSRO N. KABRAJEE, ESQ. ; K. M. SHROFF, ESQ. ; S. REBSCH, ESQ., ASSO. M.I.C.E. ; ACCACIO G. VIEGAS, ESQ., L.M. & S. ; R. H. VINCENT, ESQ., C.I.E. ; CAPTAIN W. P. WALSHE.

H. A. ACWORTH, ESQ., I.C.S., Commissioner ; and the SECRETARY.

The minutes of the meeting held on the 28th and 30th ultimo and 5th instant, were signed.

The seal of the Corporation was affixed to deeds of contract (1) with Messrs. Richardson & Cruddas for the supply of special stoneware bends, junctions and balance valves, and (2) with Mr. Sayaji Nagooji, for constructing a retaining wall along a portion of Walkeshwar Road.

No. 10131. *Resolved* : "That, as applied for by the Commissioner, in his memoranda Nos. 20397 and 20398, dated 4th instant, sanction be given, under section 351 (2) of the Municipal Act, to the removal of the following structures built without permission :—

Names of owners.	Where.
Mr. Ebrahim Cassum ...	Shed at Lady Jamsetji Road.
Do.	Do."

No. 10132. *Resolved* : "That, as applied for by the Commissioner, in his memorandum No. 21044, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

Considered letter No. 20539, dated 5th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to state that the Commissioner of Police requested me to issue orders to pave one of the store-rooms at the Head Police Office, Byculla, and to plaster its walls as he intended to use it for keeping the arms of the armed branch of the Police Force. The Executive Engineer estimates the cost of the work, including the work of painting the wood-work, at Rs. 331. The Commissioner of Police was informed that if he desired that the work should be carried out at Municipal expense, a proportionate increase in the rent would have to be paid by Government, calculated at such percentage on the outlay as the

Corporation might determine. The Commissioner of Police requests that the work should be carried out as early as possible, and that on completion he should be informed of the amount of expenditure and the rent that will be charged in addition to that now paid by him, to enable him to obtain the necessary sanction of Government. Under these circumstances, I request the sanction of the Standing Committee and the Corporation to the work being carried out at an estimated cost of Rs. 331, to be paid out of Surplus Cash Balance; and to charge additional rent to the Commissioner of Police, calculated at 5 per cent. per annum on the total outlay.

The state of the Surplus Cash Balance is as follows :—

Surplus ascertained after the closing of accounts for 1893-94				Rs.	1,80,786	0 0
Out of which expenditure (excluding temporary advances to be adjusted hereafter) has been sanctioned to the extent of	Rs.	1,30,939	10 9			
Expenditure recommended for sanction	Rs.	33,500	0 0			
					1,64,439	10 9
Balance available				Rs.	16,346	5 3

I have, &c., H. A. ACWORTH, Commissioner.

No. 10133. *Resolved* : "That letter No. 20539, dated 5th instant, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given (1) to the grant of Rs. 331, from Surplus Cash Balance, to meet the cost of paving a store-room in the Police Head-Quarters, Byculla, and to the plastering of its walls; and (2) to the charging of additional rent to the Commissioner of Police, calculated at 5 per cent. per annum on the total outlay incurred on the said works."

No. 10134. *Resolved* : "That, as applied for by the Commissioner, in his letter to the Secretary, No. 20556, dated 5th instant, sanction be given to the carrying out of certain additions, including paving and drainage, to the DeLisle Road sheep and goat market, at a cost of Rs. 681, through the agency of the annual repair contractor. The cost to be debited to savings on the grant for the construction of the market."

Resolved ; "That, with reference to letters Nos. 15605 and 20557, dated 6th October and 5th instant, respectively, from the Acting Commissioner and the Commissioner to the Secretary, the Standing Committee approve of the filing of a suit against Mr. L. A. Watkins, in the High Court, for a declaratory decree under section 212 of the Municipal Act, that the properties referred to in the said letters, are charged with payment to the Municipality of Rs. 726-3-2, being the amount of property taxes due in respect of Ward No. 6783, Police Hospital Lane, and Ward Nos. 6792, 6793 (1), 6793 (2), Dolkar Street, for the period mentioned in the said letters."

No. 10135.

Read letter No. 20541, dated 5th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to report that the Tank Bundar Burial and Burning Ground has been the subject of much dispute and correspondence in past years. It was claimed by one Madan Krishnaji as his property, although it was registered in the name of the Municipal Commissioner, on the 1st June 1874, as a Burial and Burning Ground for the Hindu community at large. In July 1882, by Government Resolution No. 4818, Government conveyed the land to the Municipality. Some Hindu gentlemen have formed themselves into a committee to manage the affairs of this Burial and Burning Ground. This they have done without sanction or authority from the Municipality. Referring to this matter the Health Officer states as follows :—" I cannot find " anything on the records of this office regarding the appoint- " ment of either the Secretary or the Committee by the Hindu " community to manage the affairs of this Burying and Burning " Ground, and so far as the Health Department is concerned no " authority has been given to any one to exercise rights over " the ground. At the north-west corner of the ground there " are two challs belonging to Ananta Madanji, who claims the " Burial Ground. These structures, which are of a temporary " nature, have been there for several years past ; one of them is " occupied by a man, named Govind Narayen, a firewood dealer, " who supplies firewood for cremation purposes. At the south- " west corner there is a pucka built rest house for funeral parties. " Mr. Ananta Madan keeps and pays a man who attends to the " place and who lives in a small hut on the ground." Notices were served upon all the occupants to vacate the ground. They have all vacated except Tatya Pandoo. This man had a firewood depôt on the ground, but as a license for the same has been refused by me, he uses the place occupied by the firewood depôt as a dwelling house, and will not vacate it unless coercive measures

are adopted. The Municipal Solicitors recommend that a suit for ejectment should be instituted against him in the High Court, for which I request the sanction of the Standing Committee; as there is no other legal method of ejecting him.—I have, &c.,

H. A. ACWORTH, Commissioner.

Proposed by the Hon'ble Mr. Javerilal U. Yajnik, seconded by the Hon'ble Mr. Fazulbboy Visram—

No. 10136. "That, as applied for by the Commissioner, in his letter to the Secretary, No. 20541, dated 5th instant, and as recommended by the Municipal Solicitors, the Standing Committee approve, under the terms of section 517 (1) (*j*) of the Municipal Act III. of 1888, of a suit being filed in the High Court for the ejectment of Tatya Pandoo from the Tank Bunder Burning and Burial Ground belonging to the Corporation."

Carried by six votes, *against* two votes.

Resolved: "That the following be *recorded*:—

No. 10137. Letter No. 20810, dated 8th instant, from the Commissioner to the Secretary, reporting with reference to the resolution of the Committee, No. 6181, dated 5th September last, that Messrs. Framjee Pestonjee & Co., contractors for the construction of the Bori Bunder bigaries' chawl, have written to the Executive Engineer stating that in consideration of the amount of Import duty payable to them being small, they will not press their claim for the same."

Resolved: "That the Progress report of new works

No. 10138. in course of construction up to the end of September 1894 be laid on the table and brought on for consideration at the next meeting."

Considered the following:—

PROPOSED NEW MARKET IN DELISLE ROAD.

That a Sub-Committee consisting of Captain W. P. Walshe, the Hon'ble Mr. Fazulbhoy Visram, and Mr. K. M. Shroff, be appointed to enquire into and report as to whether a suitable plot can be purchased at a cheaper rate for the proposed Market at Currey Road than the rate mentioned in the Commissioner's letter to the Secretary, No. 8690, dated 10th instant.

THE Sub-Committee appointed by the Standing Committee on 25th July 1894, as per margin, beg to report as follows:—

Firstly, the Sub-Committee inspected the Private Market situated opposite the Tramway Line Terminus at Parel. The property

of the Hon. Mr. Fazulbhoy Visram. It appears that this market has recently been extended by an additional wing, providing extra accommodation for dealers; but the Sub-Committee observed that the whole number of stalls were not occupied, and it would, therefore, appear that additional market accommodation is not at present needed in the immediate neighbourhood of the existing private market in question, as would be the case if a market were established at Currey Road.

Next, the Sub-Committee proceeded to inspect several alternative sites suggested as being suitable for the proposed market, as under :—

(A) The site on the south side of Currey Road, situated about one hundred feet westward of the level crossing over the G. I. P. Railway line, suggested by the Municipal Commissioner.

(B) A site on the same road, nearly opposite to plot A, and immediately abutting on the G. I. P. Railway line at the level crossing.

(C) A site on the eastern side of DeLisle Road, situated about three hundred and fifty feet south of the junction of DeLisle and Currey Roads.

(D) A site on the western side of the DeLisle Road, and facing the junction of Currey Road with DeLisle Road.

(E) A site adjoining the Parel Station of the B. B. & C. I. Railway, at the corner formed by the junction of Fergusson Road with DeLisle Road, and abutting on the present level crossing, where the proposed overbridge will be built.

(F) A site on the south side of Fergusson Road, immediately opposite to the Lukhmidas Khimjee Mills.

(G) A site on the western side of DeLisle Road, about three hundred yards to the north of the B. B. & C. I. Railway level crossing, and opposite to the Institute and Library belonging to that Railway.

The area, frontage, and depth of the various plots, also the price at which it is understood that the respective

owners are willing to dispose of the same, so far as the Sub-Committee have been able to ascertain, are as under :—

Plot.	Area in Square Yards.	Frontage in Feet.	Width in Feet.	Assumed price per square yard.	Remarks.
A	1563	60′	264′	Rs. 6	
B	4333	119′	325′	Rs. 4	Only a portion of this plot would be required.
C	2097	160′	118′	Rs. 5	
D	1865	436′	81′	Rs. 9	
E	1918	146′	236′	Rs. 4	
F	7238	246′	246′	Rs. 3 8	Only a portion of this plot would be required.
G	3426	140′	222′	Rate said to be only Re. 1, not known for certain.	This plot lies low, and would need filling in.

5. Dealing with the various suggested sites in the foregoing order the Sub-Committee are of opinion as follows:—The price asked, Rs. 6 per square yard for site (A), appears to be unduly high: and if it shall be decided that the proposed market shall be situated in Currey Road, and to the east of DeLisle Road, the Sub-Committee consider that the site shown as (B) is preferable, not only because it is understood that it could be purchased at a lower rate, but also by reason of its abutting on the G. I. P. Railway line, whereby uninterrupted light and a free current of air would be secured for all time on the eastern side. The Sub-Committee understand that in the first instance this site (B) was preferred by the Municipal Commissioner, but at that time the owner was asking a very much higher rate per yard, so the Municipal Commissioner selected site (A). The Sub-Committee, however, incline to think that owing to the two sites in question (A & B) being situated so very close to the existing Private Market belonging to the Hon'ble Mr. Fazulbhai Visram, the convenience of the large number of people residing in DeLisle Road and to the westward thereof would be better consulted if a suitable site could be obtained to the westward of

Currey Road. It should here be added that the Standing Committee have received a petition from the inhabitants of DeLisle Road, praying that a market should be built in their neighbourhood.

Plot (C)—The Sub-Committee do not recommend site (C).

Plot (D)—In the opinion of the Sub-Committee this would be a suitable and convenient site, but owing to the great extent of its frontage on a main line of traffic, such as DeLisle Road, its value is far too high for the purpose required.

Plot (E)—In the opinion of the Sub-Committee this plot is well suited as a situation for a market. It is in the form of a triangle, and as its northern and south-eastern sides which face the proposed overbridge in Fergusson Road and the Railway line can never be occupied by buildings, light and free air on two out of the three sides would be secured for ever. At the rate given, the cost of this plot would amount to about Rupees 7,672.

Plot (F)—If for any reason plot (E) is not approved of or cannot be obtained, the Sub-Committee are of opinion that the next best site would be plot (F). The whole plot is unnecessarily large for the purpose required; but it is probable that a portion of the plot might be acquired, say, approximately sixteen hundred square yards, with a frontage of from fifty-eight to sixty feet. This, at the rate given, would amount to about Rupees 5,600.

Plot (G)—The Sub-Committee do not consider the situation of this plot as convenient as some of the previously described suggested sites. Moreover, as the land lies low, the cost of filling it in would probably bring the total expenditure up to nearly, if not quite as much as the cost of plot (E) or (F) as given above—accordingly the Sub-Committee do not recommend plot (G).

8. Summed up, the opinion of the Sub-Committee is that if it be deemed advisable to build a market in the immediate neighbourhood under review, plot (E) or (F) would be the most suitable for the purpose.

The accompanying plan shows the exact position of the various alternative suggested sites.

W. P. WALSHE.
FAZULBHOY VISRAM.
K. M. SHROFF.

Proposed by Captain Walshe, seconded by Kaikhosro N. Kabraji, Esq.—

"That the report of the Sub-Committee, on the question of providing a market at DeLisle Road, be approved and adopted, and that the

No. 10139.

same be forwarded to the Commissioner for favour of detailed estimates being prepared, of the cost of land and buildings for a market on the alternative sites E and F, as shown on the plan accompanying the report."

Carried.

No. 10140. *Resolved*: "That, as applied for by the Commissioner, in his memorandum No. 20908, dated 10th instant, sanction be given to the transfer of Rs. 300, from savings in the grant for streets and buildings, A, Inspection and Supervision, I, Establishment, to same head, 2, Fees for Summonses, to meet excess on the latter head due to insufficient provision."

Considered the following :—

Statement showing set-backs of properties sanctioned by the Municipal Commissioner, under section 298 of the Municipal Act, during the month of November 1894 :—

Serial No.	Ward	Property No.	Locality.	Name of the person called upon to set-back property.	Number of square yards of land.
1	C		3rd Marine Street	Mr. Ardeshir Pestonji Porebandria.	13·75
2	E		Matharpakadi Road	„ Mahomedbhai Molla	10·67
3	D		Khambatta Lane.....	„ Jehangirji Dadabhai	11·64
4	D		Fulkland Road, between 1st Khetwadi Lane and Ardeshir Dady Street.	„ Abdul Kader Hasanalli.	1·69
5	E		2nd Carpenter Street.....	„ Haji Hasam Haji Chotani,.	19·89
6	E		Gunpowder Road, Mazagon.	„ Kassambai Sajan ...	31·47
7	F		Junction of Currey and Supparibag Roads.	„ S. A. Nathan, for E. D. Sassoon and Co.'s Mills.	376·50
8	B		Samuel and Isaji Street.	„ Haridas Premji ...	1·27 2·78

No. 18008 OF 1894-95.

6th December 1894.

Submitted to the Municipal Commissioner for information, with reference to his No. $\frac{10571}{6894}$.

M. C. MARZBAN, Executive Engineer.

No. 20786 OF *8th December* 1894.

Forwarded to the Standing Committee for information.

H. A. ACWORTH, Commissioner.

Resolved : "That the following be *recorded* :—Memo-
No. 10141. randum No. 20786, dated 8th instant, from the Commissioner, forwarding statement showing set-backs of properties, sanctioned under section 298 of the Municipal Act, during the month of November 1894."

Resolved : "That the following be forwarded to the
No. 10142. Commissioner for favour of report :—Petitions, dated 30th ultimo and 1st instant, from Nagu Dhurma Patel, Sheik Suleman bin Shaik Ebrahim and others, complaining of the erection of a night-soil depôt at the south end of Thomas Street, near Second Cooly Lane, Colaba."

Resolved : "That the following be forwarded to the
No. 10143. Commissioner for favour of report :—Petition from Messrs. Dadabhoy Dhunjibhoy, S. S. Batliwala and others, on the subject of the drainage of Supari Bag Road."

Resolved : "That the following be forwarded to the
No. 10144. Commissioner for disposal, and that applicant be informed accordingly :—Letter from Hadji Karim Hadji Mahomed, to the Secretary, dated 4th instant, requesting that the rate of Rs. 4-8-0 offered on account of land taken up for the improvement of DeLisle Road may be increased to Rs. 10 per square yard."

Resolved : "That, with reference to petitions, dated
No. 10145. 6th and 13th ultimo, from Mr. Narayen Virji, complaining of the notice served on him for the removal of weather-frame from his property No. 48—54, Musjid Bandar Road, South, the Standing Committee recommend the Corporation to refer the applicant to the Commissioner, in whom the authority is vested in the matter."

Read and *recorded* the following :—

No. 29088 OF 1894-95.

BOMBAY, 30*th November* 1894.

TO THE MUNICIPAL COMMISSIONER.

SIR,—In reference to your letter No. 19940 of the 27th instant, I have the honour to inform you that I have asked for

some more samples for examination. The quality of the water changes very much at times, and I should conjecture that the analysis was probably correct as a fair representation of the quality of the samples examined. It is possible that, in collecting the samples, the stoppers may have been fouled. These accidents will occur even when great care is taken and when the wish is to observe every precaution.—I have, &c.,

T. S. WEIR, Health Officer.

No. 2513 OF *5th December* 1894.

Copy forwarded to the Municipal Secretary, in reference to the Standing Committee resolution No. 9179 of 21st ultimo.

H. A. ACWORTH, Commissioner.

Resolved: "That the following be *recorded*:—Memorandum No. 20692, dated 7th instant, from the Commissioner to the Secretary, forwarding the following analyses of Tulsi and Vehar Waters:—

No. 10146.

Sample No. I. Filtered Tulsi water taken from the syphon well (No. 1 Filter) of Malabar Hill Reservoir, on 3rd December 1894.

	Parts per million.
Free Ammonia	·03
Albuminoid Ammonia	·16

Sample No. II. Unfiltered Tulsi water taken from the inlet well of Malabar Hill Reservoir, on 3rd December 1894.

	Parts per million.
Free Ammonia	·02
Albuminoid Ammonia	·24

Sample No. III. Filtered Vehar water taken from the filter channel of the Bhandarwada Reservoir, on 3rd December 1894.

	Parts per million.
Free Ammonia	·005
Albuminoid Ammonia	·09

Sample No. IV. Unfiltered Vehar water taken from the settling basin of the Bhandarwada Reservoir, 3rd December 1894.

	Parts per million.
Free Ammonia	·015
Albuminoid Ammonia	·14

"That, in recording this return, the Standing Committee express the wish that the Health Officer will furnish them before the next meeting with a 'careful' analysis of the Tulsi unfiltered water made by himself."

Resolved: "That the following be *recorded*:—Letter No. 20893, dated 10th instant, to the Secretary from the Commissioner, reporting that

No. 10148.

he has authorised the Drainage Engineer to purchase 100 casks of cement for the Palej Lal Gin and Press Company at Rs. 8-8-0 per cask, to the debit of the grants for the Colaba and Umarkhari Sewerage Works."

Resolved : "That, as applied for by the Commissioner in his memorandum No. 20977, dated 11th instant, sanction be given to the transfer of Rs. 500 from savings in the grant for the Water Works, Section I, Establishment and Labour, to Section III, Contingencies, Hire of Pumping Engines, to meet excess on the latter head, due to the fixing of air-escapes on the Tansa line."

No. 10149.

Resolved : "That, as applied for by the Commissioner in his memorandum No. 20978, dated 11th instant, and subject to the approval of the Corporation, under section 133 (2) of the Municipal Act, sanction be given to the transfer of Rs. 1,000 from savings in the grant for III, Water Works, Section I, Establishment and Labour (exclusive of overtime and temporary labour), to same head, provision for overtime and temporary labour to meet probable excess on the latter head up to the end of the current financial year, owing to the cost of temporary labour being increased for work on the Tansa line during the great storm in July last. The cost of rebuilding culverts at Khashele and of completion of painting the roof of the Malabar Hill Reservoir."

No. 10150.

Read letter No. 20981, dated 11th instant, from the Commissioner to the Secretary, as under :—

"SIR,—With reference to your No. 9616 of 3rd instant, item 4, there can be no doubt the improvement suggested at Chinch Bandar Road is a very important one, and that though the price put on the land is high, I doubt whether it could be got for less. I do not advocate an extra grant, the land is open, and it can be taken at any time that the funds at my disposal for the street improvement allow.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : "That letter from the Commissioner to the Secretary, No. 20981, dated 11th instant, be *recorded*."

No. 10151.

The consideration of the following letter, No. 20894, dated 10th instant, from the Commissioner to the Secretary, was deferred until the next meeting :—

SIR,—I have the honour to forward report of 7th instant, from the Water Engineer, from which it appears that an extra grant of Rs. 14,000 will be required under the head of water works materials in the current year, and that he applied for the same on 17th October last. This report has not yet come up to the Commissioner, having been detained in the Executive Engineer's office, while inquiries are being made as to the reasons for the exhaustion of the budget grant before the end of the year. This is, of course, the only real question, and a report on it is not possible at present. I have no doubt, however, that all the expenditure has been legitimate, and such as could not have been avoided, knowing as I do that the Water Engineer is a careful officer, and that the budget grant was inadequate, as I told the Standing Committee at the time. I request the Standing Committee to apply to the Corporation for the extra grant, which is demanded, as the issue of meters on hire cannot be stopped, nor can repairs be left unexecuted, and the only alternative will be that either meters cannot be issued, which means loss of revenue, and water will run to waste through leaks not being stopped, or that the Commissioner will be driven to authorize expenditure in anticipation of sanction.

The grant must be met from the amount reserved in the Budget for 1895-96 for further additional grants to be sanctioned up to the end of the current official year.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. $\frac{W}{6773}$ OF 1894-95.

7th December 1894.

TO THE MUNICIPAL COMMISSIONER.

SIR,—I have the honour, with reference to your No. 20211 of the 30th ultimo, drawing attention to Chief Accountant's No. 3585 of the 27th November, "In the meantime the Water Engineer will have to be instructed to see that the present available balance is not allowed to be exceeded," to request the favour of instructions as to whether I am to stop the issue of meters on hire, which are debited to materials grant on first issue, and to stop the repairs of leaks of fittings and mains as soon as the grant is exhausted. 2. Last year I applied for an additional grant on the 5th September 1893, it was sanctioned by the Standing Committee on the 26th September 1894; this year I have applied on the 17th October under No. $\frac{W}{5305}$ for an additional grant of Rs. 14,000.=3. The expenditure to end of October was Rs. 32,723-8-3, allowing even the monthly apportion-

ment of budget grant $\frac{40,000}{12}$-3,333 per mensem, the balance will be exhausted in about two months, say, by the 31st instant. 4. I have already stopped all works which can be postponed—such as painting and petty alterations.—I have, &c.,

S. TOMLINSON, M.I.C.E.,
Water Engineer.

Considered the following :—

No. 3566 of 1894-95.

BOMBAY, *2nd November* 1894.

To THE MUNICIPAL COMMISSIONER.

SIR,—With reference to your No. 19494, dated the 20th instant, forwarding, for the information of this office, Corporation's Resolution No. 8898, dated the 15th idem, I have the honour to inform you that the annual budget estimates of the property taxes furnished by the Assessor and Collector for being incorporated in the budget estimates prepared by you under section 125 of the Municipal Act, do not include any outstandings of previous years recoverable during the budget year, but only the taxes leviable for the year proper.

2. It has been the practice not to include the outstandings in the budget estimate for the following reasons :—1st—The recoveries of the taxes depend on different circumstances, and as our budget estimates are framed just in the middle of the year, it is not possible to estimate with sufficient accuracy what outstandings will remain at the end of each year and how much therefrom can be recovered in the following year. 2nd—It is presumed that the outstandings in the beginning of a budget year will be counter-balanced by similar outstandings at the end of that year.—I have, &c.,

W. PEARSON,
Acting Chief Accountant.

No. 19909 of *27th November* 1894.

Forwarded to the Municipal Secretary.

H. A. ACWORTH, Commissioner.

No. 20980 of 1894-95.

BOMBAY, *11th December* 1894.

To THE MUNICIPAL SECRETARY.

SIR,—With reference to your No. 9616 of 3rd instant, items 2 and 5, I have the honour to say that it is not practicable to comply with the wish of the Corporation that outstandings should be shown separately from revenue for the year, because outstanding revenue is not budgetted for. The revenue

budgetted for is the revenue expected to accrue in the year to which the budget relates and that only.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 10153. *Resolved*: "That memorandum No. 19909, dated 27th ultimo, and letter No. 20980, dated 11th instant, from the Commissioner to the Secretary, be forwarded to the Corporation; with reference to their resolution No. 8898, dated 15th November last, on the subject of showing the budget estimates of rates and taxes apart from the amounts outstanding under the respective heads of such taxes."

BOMBAY, 19*th December* 1894.

AT the Meeting of the Standing Committee held this day, there were present:—

G. W. ROUGHTON, ESQ., *Chairman*.

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKER YAJNIK; KAIKHOSRO N. KABRAJEE, ESQ.; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPTAIN W. P. WALSHE.

H. A. ACWORTH, ESQ., I.C.S., Commissioner.

The minutes of the meeting held on the 12th instant, were signed.

A letter of apology for non-attendance was received from the Hon'ble Mr. Fazalbhoy Visram on account of his having to attend the Viceregal Council.

No. 10383. *Resolved*: "That, as applied for by the Commissioner in his memorandum No. 21596, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

Read letter No. 21070, dated 12th instant, from the Commissioner to the Secretary, as under:—

SIR,—I have the honour to state that when the B Ward Collections, Assessment Department, of 2nd December 1893, were brought to the Head Office for payment into the treasury, they were found to be short of Rs. 1,230. The deficiency was inquired into, but no clue as to how the amount disappeared could be got at. After careful consideration of the circumstances of the case, I deemed it advisable to dispense with the services of all those who either had handled the day's collections in the evening or whose duty it was to see to their safe custody, and they were accordingly discharg-

ed from service on 4th February last, the Ward Superintendent, Mr. Bomanji S. Coyaji, being amongst the latter. I suspected Mr. Bomanji of no dishonesty, but deemed it necessary to dispense with his services as a warning and example. I have, however, now consented to re-employ him, as, I think, he has been punished enough, and as he has made good the amount which was lost. There will be thus a break of 5 months and 15 days in his service, and I think this may be condoned under Regulation 18 of the New Pension Rules, in order to save him from the loss of 14 years' pensionable service.—I have, &c.,

H. A. ACWORTH, Commissioner.

Proposed by Kaikhosro N. Kabraji, Esq., seconded by K. M. Shroff, Esq.—

No. 10384. "That, as applied for by the Commissioner in his letter to the Secretary, No. 21070, dated 12th instant, sanction be given, under Regulation 18 of the New Pension Regulations, (1) to condone the break of 5 months and 15 days in the service of Mr. Bomanjee S. Coyaji, thereby allowing his former service to count towards pension, and (2) to his being allowed to contribute towards the Pension Fund from the date of his re-employment."

Carried by 6 votes against 3 votes.

No. 10385. *Resolved*: "That, as applied for by the Commissioner in his memorandum No. 21208, dated 14th instant, and subject to the approval of the Corporation, under section 133 (2) of the Municipal Act, sanction be given to the transfer of Rs. 1,605, from savings in the grant for B. Public Lighting, I, Gas Lighting, to Assessment and Collection Department, Property and Wheel Tax Establishment, I, Head Quarters Office, Superior Staff, to meet acting allowance payable to the acting incumbents during the absence of the Assessor and Collector on 70 days' privilege leave."

No. 10386. *Resolved*: "That, as applied for by the Commissioner in his memorandum No. 21402, dated 17th instant, and subject to the approval of the Corporation, under section 133 (2) of the Municipal Act, sanction be given to the transfer of Rs. 1,000 from savings in the grant for Victoria Gardens, section IV., Feed of Animals, to section II., Contingencies and

Stores, to meet excess on the latter head, due to the purchase of stores and implements that were required."

No. 10387. *Resolved* : "That, as applied for by the Commissioner in his letter to the Secretary, No. 21352, dated 15th instant, the Corporation be recommended to sanction the grant of Rs. 720 from Surplus Cash Balance, to meet the amount of compassionate allowance payable to the children of Mr. C. D. Rozario, late Clerk in the Executive Engineer's Department."

No. 10388. *Resolved* : "That, as applied for by the Commissioner in his memorandum No. 21403, dated 17th instant, sanction be given to the transfer of Rs. 350, from savings in the grant for Victoria Gardens, Section VI., Feed of Animals, to Section III., Water-supply, to meet excess on the latter head, due to the bill for the last quarter of last year having been paid out of current year's grant."

No. 10389. *Resolved* : "That, as applied for by the Commissioner in his memorandum No. 21401, dated 17th instant, sanction be given to the transfer of Rs. 3-7-0, from savings in the grant for Victoria Gardens, Section I, Establishment, to same Department, Section I., Labour, to meet excess on the latter head."

No. 10390. *Resolved* : "That, as applied for by the Commissioner in his memorandum No. 21420, dated 17th instant, the Corporation be recommended to sanction the writing off of (1) Rs. 2,166-4-0 from the live stock return of the Health Department, being the book-value of one horse that was sold by public auction, one bullock that was destroyed, and 29 bullocks that died during the quarter ending 30th November last, and (2) of Rs. 786-14-0 from the live-stock return of the Market Department, being the book-value of 2 bullocks that died and 6 which were sent to Pinjrapole during the same quarter."

Proposed by K. M. Shroff, Esq., seconded by A. G. Viegas, Esq.—

"That a Sub-Committee consisting of Mr. Roughton, Mr. Rebsch, Capt. Walshe, and the Hon'ble Mr. Javerilal U. Yajnik, be appointed to consider and

report on letter No. 20894, dated 10th instant, from the Commissioner to the Secretary, asking for an additional grant of Rs. 14,000 to meet probable excess on the water works materials grant, up to the end of the current official year."

Amendment proposed by S. Rebsch, Esq., and seconded by R. H. Vincent, Esq.—

"That the consideration of the following be postponed until the next meeting:—Letter No. 20894, dated 10th instant, from the Commissioner to the Secretary, requesting sanction to a grant of Rs. 14,000 from Surplus Cash Balance, to meet probable excess on the water works materials grant, up to the end of the current financial year."

The amendment was *carried* as a substantive motion by 5 votes against 4 votes.

Read letter No. 21,221 dated 14th instant, from the Commissioner to the Secretary, as under:—

SIR,—Referring to the last para. of the Corporation's Resolution No. 7559 of the 11th October 1894, I have the honour to state that the maintenance period of the engines supplied by Messrs. Simpson and Company having expired on the 15th June 1894, the Drainage Engineer proposes to take over the machinery with the following reservations and conditions:—

1. That no further payment be made at present to Messrs. Simpson and Company.

2. That the broken delivery frames in connection with engines Nos. 2 & 4 be ultimately replaced with new and stronger frames by or at the cost of Messrs. Simpson and Company.

3. That the delivery frames in connection with engines Nos. 1 & 3 shall be similarly replaced by or at the cost of Messrs. Simpson and Company, unless found sound and satisfactory after a period of at least three months' working.

4. That the conditional taking over of the machinery shall not be held or made to prejudice the Municipality in any way whatever in respect of the claim of the Municipality against Messrs. Simpson and Company for a sum of Rs. 2,000, as the estimated cost of new pump rods or in respect of the repudiation by the Municipality of the claim of Messrs. Simpson and Company amounting to £475-14s.-6d. sterling, preferred against the Municipality for the supply of valve faces and for sundry charges in connection therewith.

5. That the cost of renewing the rocking lever shafts of engines Nos. 3 & 4 be paid by Messrs. Simpson and Company.

The Municipal Solicitors' advice that the machinery may be taken over with the reservations given above as the 10 per cent. balance of the amount payable to Messrs. Simpson and Company still retained, together with the 5 per cent. security deposit, is sufficient, amply to cover not only any possible expense that may fall on the Municipality in connection with the renewal of the delivery frames, either according to the present design or according to any other design which may be adopted in preference, but also the amount of the present claim against the contractors, viz., Rs. 2,000 for cost of new iron rods.

Under the circumstances of the case, I have to request the sanction of the Standing Committee to the taking over of the machinery on the conditions described above. It is undesirable that it should continue nominally in the makers' hands, pending the settlement of small details such as always interfere with the technical completion of a contract and ample provision for which has been made by the reservations named above.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved :—"That, as applied for by the Commissioner in his letter to the Secretary, No. 21221, dated 14th instant, sanction be given, under section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. Simpson & Co., so as to allow of the taking over by the Municipality of the engines and pumps supplied by that firm for the Love Grove Pumping Station on the following terms :—

No. 10392.

1. "That no further payment be made at present to Messrs. Simpson and Company.

2. "That the broken delivery frames in connection with engines Nos. 2 and 4 be ultimately replaced with new and stronger frames by or at the cost of Messrs. Simpson and Company.

3. "That the delivery frames in connection with engines Nos. 1 and 3 shall be similarly replaced by or at the cost of Messrs. Simpson and Company, unless found sound and satisfactory after a period of at least three months' working.

4. "That the conditional taking over of the machinery shall not be held or made to prejudice the Muni-

pality in any way whatever in respect of the claims of the Municipality against Messrs. Simpson and Company for a sum of Rs. 2,000 as the estimated cost of new pump rods, or in respect of the repudiation by the Municipality of the claim of Messrs. Simpson and Company, amounting to £475 14s. 6d. sterling, preferred against the Municipality for the supply of valve faces and for sundry charges in connection therewith.

5. "That the cost of renewing the rocking lever shafts of engines Nos. 3 and 4 be paid by Messrs. Simpson and Company.

"That a copy of this resolution be forwarded to the Corporation, with reference to their resolution No. 7559, dated 11th October last, for information."

Read letter No. 21222, dated 14th instant, from the Commissioner to the Secretary, as under :—

SIR,—Referring to Standing Committee's resolution No. 9689 of 5th instant, I have the honour to say that the Acting Commissioner's proposal on which a sub-committee of the Standing Committee was appointed to report was altogether crude and premature. The question of moving, concentrating, or dispersing the stables, night-soil depôt and carts and employés of the Health Department now collected in Kamathipura is a very large one, and is inseparably connected with the questions of abolishing the night-soil depôt (now before a Special Committee), the housing and stabling of employés and animals throughout the whole city, and to some extent of the incineration of cutchra.

I have laid before the Committee, just referred to, proposals which would, I think, lead to the total abolition of the night-soil depôt, and I have it in my mind to propose that the area of ground now occupied by the night branch at Kamathipura should be devoted to the erection of a large incinerator. I may say that a proposal made to me by the Health Officer to transfer to the site under consideration, in Bellasis Road, not only the stables and establishments in Kamathipura, but also the night-soil depôt

and night-soil carts, seems to me to be one which cannot possibly be entertained. To place a night-soil depôt and 130 night-soil carts on such a thoroughfare as Bellasis Road is out of the question.

But I do not think there can be any reasonable objection to placing model stables and chawls there, and if, when the time comes, a suitable site is still available, it might be considered. They would be far less of a nuisance than the horse stables which have been there from time immemorial. But there are many other suitable places, and I am not prepared to rush at a site on Bellasis Road because it happens at the moment to be available. I quite agree with the Health Officer in thinking it advisable that good chawls and stables should be built for the establishment he refers to, but that question again cannot be disposed of under the recent orders of the Government of India with regard to loans for such purposes until a general scheme for the whole city has been prepared, and this I have called for. The Standing Committee will thus see that there are number of interdependent questions connected with the removal and location elsewhere of the Kamathipura establishment, and to dispose of any one of them prematurely would be only productive of difficulty and confusion. In the meantime, we must go on as we are for the present, and do the best we can. I do not approve of the Acting Commissioner having seized the opportunity of my absence to bring forward so inchoate a proposal.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : "That the following be *recorded* :—Letter No. 21222, dated 14th instant, from the Commissioner to the Secretary, reporting on the proposed site for the Health Department stables at Bellasis Road."

No. 10393.

Considered the following :—

Statement of Houses or Portions of Houses which fell during the month of November 1894.

No.	Ward.	Street No.	Locality.	Names of Owners.	Description of Building.	Age of Building or date of erection (if known).	Date of fall.	Cause of fall.	Part fallen.	Casualties.		Estimated loss.	Whether or not action taken by the Municipality.	Whether or not warning given to the parties.	REMARKS.
										Persons injured.	Persons killed.				
1	D	Nil.	Tardeo Road.	Mr. Manekji Edulji ...	Four storied house with front arched verandah under construction.	Nil The building being under construction.	21-11-94.	The thrust given by the sudden breakage of the scaffolding to the fresh and unplastered verandah arches.	A portion of the arched verandah of the North-East corner of house.	5	Two out of the five men injured, died subsequently.	About Rs. 500.	Nil.	Nil.	A coroner's inquest was held on one of the two men dead. The verdict was, death caused through an accident.

No. 18280 OF 1894-95.

BOMBAY, 10*th December* 1894.

Forwarded to the Municipal Commissioner for information. M. C. MURZBAN, Executive Engineer, Municipality.

No. 21029 OF 12-12-94.

Forwarded to the Standing Committee for information. H. A. ACWORTH, Commissioner.

Resolved: "That the following be *recorded* :—Memo-
No. 10394. randum No. 21029, dated 12th instant, from the Commissioner, forwarding statement of houses or portions of houses which fell during the month of November 1894."

Considered the Progress Reports up to the end of September 1894 of new works in course of construction.*

Resolved: "That the Progress Report of new works
No. 10395. in course of construction up to the end of September be *recorded*."

Resolved: "That, with reference to their letters dated
No. 10396. 22nd September and 4th October last, regarding the charge for water supplied to the Mahdowji Dharamsi Manufacturing Co., Messrs. Little, Smith, Nicholson, and Bowen be informed in terms of the Commissioner's letter No. 21303, dated 14th instant."

Resolved: "That the following be laid on the table :—
No. 10397. Letter, dated this day from Messrs. Ardaseer Framjee Moos and Nanabhai R. Ranina, stating that they have audited the weekly statement of receipts and disbursements at the end of each week for the month of November last, and compared them with the general and subsidiary ledgers and journals and found them correct. Forwarding the usual summary and statement of their scrutiny of accounts."

Resolved: "That, in reply to their letter dated 17th
No. 10398. instant, on behalf of Mr. Dosabhoy Sorabji, Messrs. Payne, Gilbert and Sayani be informed that the Standing Committee see no reason to deviate from the terms of resolution, No. 9327, dated 28th November last, on the subject of the set-back of their client's property situate at 1st Pinjrapole Street."

The following return was read and *recorded* :—

Return of fires at Pallaya Road, Worlee, forwarded with the Commissioner's Memorandum No. 20999, dated 11th instant, 1894.†

* See Appendix D. † See Appendix C.

The following statement † was laid on the table :—

Statement of height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 18th December 1894.

No. 10400. *Resolved* : "That, as applied for by the Commissioner in his letter to the Secretary, No. 21479, dated 18th instant, sanction be given to the payment of Rs. 18-12-0, to Bhawoo Rama, sawyer in the Municipal Workshops, being the amount of his wages for 25 days during which time he was under medical treatment on account of injuries sustained whilst in the execution of his duty. The amount to be debited to the grant for repairs to dust-bin carts of the Health Department."

It was agreed that the next meeting of the Committee be held on Thursday, the 27th instant, at 3 p.m.

BOMBAY, *27th December* 1894.

At the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman*.

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M. ; COWASJEE HORMUSJEE, ESQ., C.S.M.C. ; HURKISONDAS NURROTUMDAS, ESQ. ; THE HON'BLE MR. JAVERILAL UMIASHANKER YAJNIK ; K. M. SHROFF, ESQ. ; ACCACIO G. VIEGAS, ESQ., L.M. & S. ; R. H. VINCENT, ESQ., C.I.E. ; CAPTAIN W. P. WALSHE ; H. A. ACWORTH, ESQ., I.C.S., *Commissioner*.

The minutes of the Meeting held on the 19th instant, were signed.

No. 10505. *Resolved* : "That, as applied for by the Commissioner in his memorandum No. 21968, dated 26th instant, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 10506. *Resolved* : "That, as applied for by the Commissioner in his memorandum No. 21684, dated 20th instant, sanction be given, under section 351 (2) of the Municipal Act, to the removal of the following structure built without permission :—

Name of owner.	Where.
Mr. Vallibhai Khanbhai	Building at No. 9, Hospital Lane."

No. 10507. *Resolved* : "That, as applied for the Commissioner in his memorandum No. 21782, dated 21st instant, sanction be given to the transfer of

† *See* Appendix B.

Rs. 160 from savings in the grant for General Office Establishment, I. Establishment, to same Department, Section IV, Contingencies, including coal, cotton, waste, &c., for hydraulic lift, boiler inspection fee, &c., &c., to meet excess on the latter head."

No. 10508. *Resolved*: "That, as applied for by the Commissioner in his memorandum No. 21450, dated 18th instant, sanction be given to the transfer of Rs. 150 from savings in the grant for Northbrook Garden, Section II, repairs to buildings and roads, to same Department, Section II, Contingencies and Stores, to meet the cost of laying new water pipes in the garden."

No. 10509. *Resolved*: "That, as applied for by the Commissioner in his memorandum No. 21534, dated 18th instant, and subject to the approval of the Corporation, under section 133 (2) of the Municipal Act, sanction be given to the transfer of Rs. 1,010 from savings in the grant for Fire Brigade (*a*) I. Establishment, (*b*) II. Rent, Repairs and Miscellaneous Repairs to Engines, (*c*) Feed of horses to II. Rent, repairs and miscellaneous, (*a*) stores and stationery, (*b*) contingencies; to meet excess on the latter head due (1) to additional fire appliances being ordered out from England, and (2) on account of the reduced budget grant being found insufficient."

No. 10510. *Resolved*: "That, as applied for by the Commissioner in his memorandum No. 21858, dated 22nd instant, sanction be given to the transfer of Rs. 339-5-2 from savings in the Health Department, Conservancy Branch, 10 Halalkhor Branch, G. Rent, rent of extra chawls, to same Department, Conservancy Branch, 4 repairs to chawls, stables, chowkies and miscellaneous, to meet the cost (1) of the removal of the present chimney of the Kamathipura incinerator and to substitution for it of a new one, and (2) of sundry repairs."

No. 10511. *Resolved*: "That, as applied for by the Commissioner in his letter No. 21756, dated 20th instant, to the Secretary, the Standing Committee approve of the purchase, from Messrs. C. J. Khambatta

& Co., of 100 tons of Powell Duffryn Cardiff coal, and 375 tons of Davison's West Hartley coal, at Rs. 20-8-0 and Rs. 18-4-0 per ton, respectively, for the Love Grove Pumping Station, at a total cost of Rs. 8,893-12-0, to be debited to the grant for the purchase of coal as supplemented by the Corporation on the 6th idem. That, under the terms of section 72 (3) of the Municipal Act, the Standing Committee dispense with the invitation for tenders, which would otherwise be necessary, as the coal is required at once, and as similar arrangements for the purchase of coal have proved advantageous to the Municipality."

Read letter No. 21831, dated 21st instant, from the Commissioner to the Secretary, as under:—

SIR,—I have the honour to state that in the Budgets for 1892-93 and 1893-94 provision was made for the employment of establishment at a cost of Rs. 21,540 for the preparation of plans and estimates and for the supervision of the works of constructing Fire Brigade Stations in different parts of the City. The establishment was employed by the Executive Engineer from time to time, including a junior audit clerk in the Chief Accountant's Office to audit the accounts of the works, and the balance now available is Rs. 11,190-10-10, the period, during which the establishment was to be retained, having expired on the 30th November last. It is now proposed to retain the following establishment, for a further period of two years, to prepare detailed plans and estimates, to supervise and keep the accounts of the remaining works :—1 Inspector at Rs. 100 per mensem ; 1 Inspector at Rs. 90 do. ; 1 Surveyor at Rs. 60 do. ; 1 Clerk at Rs. 50 do. ; 1 Clerk at Rs. 30 do. ; 4 Lascars at Rs. 10 do. each ; 3 Maistries—salaries to be fixed by the Executive Engineer, the total not exceeding Rs. 120 per mensem ; 1 Junior Audit Clerk at Rs. 45 per mensem.

The works still to be executed are as follows :—

(1) Head-quarters of the Fire Brigade at Sankli Tank.

(2) Fire Brigade Station at Babula Tank.

(3) Quarters for the Chief Inspector of Water Works at Babula Tank.

(4) Fire Brigade Station at Gamdevi.

The following works are in progress :—

(1) Fire Brigade Station at Naigaum Tank.

(2) Do. do. at Chinchpoogly.

The works at Babula Tank, Sankli Tank and Naigaum Tank could not be proceeded with until the filling in of the tanks had become thoroughly consolidated.

The whole of the establishment detailed above will, however, not be employed at once, but such as may be required from time to time will be employed, restricting the expenditure to the available balance of Rs. 11,190-10-10.

Under the circumstances, I request the sanction of the Standing Committee and the Corporation to the proposal.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 10512.

Resolved: "That letter No. 21831, dated 21st instant, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the continuance, from 30th November last, for a period of two years, of the employment of the following establishment provided in the Loan Works Budgets for 1892-93 and 1893-94, for preparing detailed plans and estimates and for supervising and keeping the accounts of the works, of constructing Fire Brigade Stations and Quarters in different parts of the city :—

1	Inspector	at Rs.	100 per mensem.
1	Do.	„	90 „
1	Surveyor	„	60 „
1	Clerk	„	50 „
1	Do.	„	30 „
4	Lascars	„	10 each.

3 Maistries—salaries to be fixed by the Executive Engineer, the total not exceeding Rs. 120 per mensem.
1 Junior Audit Clerk at Rs. 45 per mensem.

"The amount to be debited to the available balance of Rs. 11,190-10-10 on the Establishment provision for the work."

No. 10513.

Resolved: "That letters No. 16223, dated 22nd October and No. 18316 of 7th November last, from the Acting Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the continuance, from 30th November last, up to 30th September 1895, of the employment of the establishment provided

in the Loan Works Budget for 1894-95, for the construction of bigaries chawls, Bori Bunder, as follows :—

1 Inspector	Rs.	100	per mensem.
1 Maistri	„	40	„
1 Draftsman	„	40	„
1 Clerk	„	40	„
2 Lascars at Rs. 10 each ...	„	20	„
1 Junior Audit Clerk in the Chief Accountant's Office	„	40	„
	Rs.	280	per month.

The cost to be met from the contingent provision for the work."

No. 10514. *Resolved*: "That, as applied for by the Commissioner in his letter to the Secretary, No. 21738, dated 20th instant, the Corporation be recommended to sanction the grant of Rs. 195, from Surplus Cash Balance, to meet half the cost of printing charges in connection with Mr. Steven's award for the assessment of Government properties."

No. 10515. *Resolved*: "That, as applied for by the Commissioner in his letter to the Secretary, No. 21752, dated 20th instant, sanction be given to the payment of bhatta allowance for 3 days to five mallees sent by the Superintendent of Gardens to collect bulbs of Gloriosa Superba roots from the Mawal jungle, at the rate of 2 annas per day, each. The amount to be debited to the grant for the purchase of seeds and plants."

No. 10516. *Resolved*: "That the following be *recorded* :—Letter No. 21560, dated 18th instant, from the Commissioner to the Secretary, reporting that he has sold the right of cutting grass from and cultivating the ground to the north of the Byculla Club, lately acquired from Bai Motlibai and Mr. Cama, from 1st January to 31st December 1895, to Messrs. Dewji

Ramjee and Asana Syaboo, for Rs. 1,000. The ground admeasures 247,200 square yards. Adding that the last time the right was sold, it realised Rs. 500 from 16th June to 31st October 1894."

Resolved : "That, as applied for by the Commissioner in his letter to the Secretary, No. 21811, dated 21st instant, sanction be given, under section 69 (*e*) of the Municipal Act, to the variation Mr. Purbut Mowjee's contract for the construction of a monumental arch at Tansa Lake, whereby Rs. 200, out of the deposit of Rs. 250, may be returned to him before the expiration of the maintenance period of the work." No. 10517.

Resolved : "That the consideration of the report of the Health Officer for the 3rd quarter of 1894, be postponed until next week's meeting."

Read letter No. 21561, dated 18th instant, from the Commissioner to the Secretary, as under :—

SIR,—With reference to Standing Committee's Resolution No. 7999 of 24th October last, and Corporation's Resolution No. 8530 of 8th ultimo, I have the honour to request reference to the Executive Engineer's letter No. 11883 of 17th September, forwarded to the Standing Committee with this office memorandum No. 14044 of 19th idem. I gather from the Resolution of the Corporation referred to above that the question of acquiring Mr. Adamji Velliji's house, marked $\frac{22}{H}$ in the accompanying tracing, was not considered by the Corporation ; and if so, I beg to press again upon the Standing Committee the extreme desirability of seizing this opportunity of doing so. It would only cost Rs. 28,000 now, but no one can say what it will cost if the house is rebuilt, and the ultimate construction of the road is, I take it, a certainty.—I have, &c.,

H. A. ACWORTH, Commissioner.

Proposed by R. H. Vincent, Esq., seconded by Captain W. P. Walshe—

"That letter No. 21561, dated 18th instant, from the Commissioner, on the subject of acquiring Mr. Adamji Velliji's property, at a cost of Rs. 28,000, for the im-

provement of 1st Marine Street, be forwarded to the Corporation, with the recommendation that sanction be given to the acquisition of the property therein referred to, the amount to be found by an advance to be made against a loan to be raised hereafter for the improvement of that road."

Amendment moved by K. M. Shroff, Esq., seconded by the Hon'ble Mr. Javerilal U. Yajnik—

"That the Commissioner's letter No. 21561, dated 18th instant, be forwarded to the Corporation."

No. 10518.

The *amendment* was *carried* as a substantive proposition.

Resolved: "That the consideration of the following be postponed until next week's meeting:—Letter No. 20894, dated 10th instant, from the Commissioner to the Secretary, requesting sanction to a grant of Rs. 14,000 from Surplus Cash Balance, to meet probable excess on the Water Works materials grant up to the end of the current financial year."

Resolved: "That the following be forwarded to the Commissioner for favour of report in continuation of the Committee's Resolution No. 10142, dated 12th instant:—Letter dated 17th idem, from Sheikh Suleman and others, complaining of the construction of a night-soil depot at the south of Thomas Street, near Second Cooly Lane, Colaba."

No. 10519.

The following return of fires was read and *recorded*:—

Return of fires at Jenjikar Street (Cross Lane) No 4; Do. do. No. 1; Do. do. No. 2; and No. 23 Koliwada (Cross Lane); Do. do. No. 21, Do. do. No. 19, and Bhendi Bazaar, forwarded with the Commissioner's Memoranda Nos. 21487 and 21910, dated 18th and 22nd instant, 1894.*

*See Appendix C.

The following statement† was laid on the table :—

Statement of height of water in the Vehar, Tulsi, Pavai and Tansa Lakes, for the week ending 23rd December, 1894.

BOMBAY, *2nd January* 1895.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADAKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHUNKAR YAJNIK; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSOC. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPTAIN W. P. WALSHE.

H. A. ACWORTH, ESQ., C.S., Commissioner, and the SECRETARY.

The minutes of the Meeting held on the 27th ultimo, were signed.

No. 10697. *Resolved* : "That, as applied for by the Commissioner, in his Memorandum No. 22072, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 10698. *Resolved* : "That, as applied for by the Commissioner, in his letter No. 21963, dated 24th ultimo, the Corporation be recommended to sanction the acceptance of the tender of Messrs. Teju Kaya and Co., for the supply of road metal, at Rs. 5-10-6 per brass of one hundred cubic feet, for a period of three years from 1st March next."

No. 10699. *Resolved* : "That, as applied for by the Commissioner, in his letter No. 21967, dated 26th ultimo, the Corporation be recommended to sanction the acceptance of the tender of Messrs. Tejoo Kaya and Co., for the supply of carts and

† *See* Appendix B.

bullocks for a period of three years, commencing from the 1st March next, at the rates given below :—

	Rs.	a.	p.
1. For every single bullock with yoke band, rope and one adult driver per day	0	10	0
2. For every pair of bullocks with yoke bands, ropes, and one adult driver per day.....	1	2	0
3. For every cart with one pair of bullocks, yoke bands, ropes, and one adult driver per day...	1	6	0
4. For every pair of bullocks with yoke bands, ropes, and one adult driver in excess of the number stipulated in the contract per day..	1	2	0
5. For every cart, with one pair of bullocks yoke bands, ropes, and one adult driver in excess of the number stipulated in the contract, per day	1	6	0

"That in the opinion of the Standing Committee the Contractors should be required from time to time and at all times throughout the currency and for the purposes of this contract, to own and possess not less than two hundred pairs of bullocks and 100 labour carts which shall be the contractors own exclusive property and at all times fit for work under this contract, and all such bullocks shall be branded with the letter M. or in such manner as the Commissioner shall determine."

Considered letter No. 3477, dated 21st November 1894, from the Acting Chief Accountant to the Commissioner, as under :—

SIR,—With reference to the Acting Municipal Commissioner's No. 14710, dated 27th September last, received in this office on the 29th idem, I have the honour to submit herewith, as desired by the Standing Committee in their Resolution No. 6998, dated the 19th idem, fresh statements marked A1 and A2 and B1 and B2 of lapsed grants requiring renewal during the current year, the former, viz., A1 and A2, showing the lapsed grants for 1893-94, and those for previous year, respectively, payable out of

current revenue and the latter, similar grants payable out of loan funds. The dates when the grants were sanctioned have also been shown. (2) With reference to the Standing Committee's request to have returns showing (1) the items which it is *in their power* to renew and (2) those for the renewal of which the sanction of the Corporation will be necessary, I beg to state that hitherto the renewal of *all lapsed grants* whether for the year immediately expired or for preceding years was sanctioned by the Standing Committee alone. (3) I beg to quote below the provisions of the Municipal Act bearing on the subject of lapsed grants, Section 132. "If any portion of a budget grant remains unexpended at the close of the year in the budget estimate for which such grant was included, and if the amount thereof has not been taken into account in the opening balance of the Municipal fund entered in the budget estimate of the next following year, the Standing Committee may sanction the expenditure of such unexpended portion during the next following year for the completion according to the original intention or sanction of the purpose or object for which the budget grant was made, but not upon any other purpose or object." (4) From the above it is not quite clear whether the lapsed grants can be renewed by the Standing Committee for one year only or whether they can be renewed by them from year to year until the objects or purposes for which the grants may have been sanctioned are carried out. (5) Hitherto it has been the practice of this office to submit statements of all lapsed grants for the Standing Committee's sanction to their renewal under the above section. (6) To remove all uncertainties perhaps you might think it desirable to obtain the Municipal Solicitors' opinion in the matter. (7) If the Solicitors be of opinion that under the above section, the Standing Committee has the power to renew lapsed grants for one year only, sanction of that body will have to be obtained to the renewal of the grants (payable out of revenue) for the past year, aggregating Rs. 4,04,816-4-6 as per List A1. (8) With regard to list A2 aggregating Rs. 1,07,643-7-3 on account of similar lapsed grants for 1892-93 and previous years, sanction of the Corporation will have to be obtained to the payment thereof out of the available balance from the sum of Rs. 5,12,459-11-9 reserved from our cash balance for the past official year for the renewal of the total lapsed grants. (9) The solicitors' opinion will also have to be obtained as to

whether the unexpended balances of loan works allotments have to be treated in the same way as the grants sanctioned from current revenue. (10). Prior to the introduction of the Municipal Act of 1888, the loan allotments had not to be separately budgetted for as is done at present. They were considered to be available for expenditure after the loans were sanctioned and raised until the works were actually completed. (11) But since the new Municipal Act came into force, it has been the practice to prepare a separate budget for Loan works proposed to be undertaken in each year and the unexpended balances of the allotments sanctioned by the Corporation are renewed from year to year, along with the current revenue lapsed grants, with the sanction of the Standing Committee under the section quoted above. (12) It may be pointed out that the allotments for loan works sanctioned by the Corporation do not become available for expenditure after the commencement of the Budget year as is the case with the grants provided out of current revenue but only when the loans are duly sanctioned and raised, unless the Corporation specially sanction their being carried out in the meantime by advances from the surplus balances in our hands pending the raising of the necessary loans. (13) If it be decided that Section 132 of the Act applies also to the Loan Works allotments, it will be necessary to determine the dates from which such allotments can be considered to have been duly sanctioned for expenditure, *i.e.*, from the dates of the Corporation's sanction or from the commencement of the Budget year, or from the dates of the raising of the Loans. (14) If it is decided that the loan works allotments can be renewed by the Standing Committee for one year only, sanction of that body will have to be obtained to the renewal of the grants, aggregating Rs. 6,51,451-6-9 as per list B 1. The renewal of the remaining grants aggregating Rs. 21,07,035-0-4 as per list B 2 will have to be sanctioned by the Corporation.—I have, &c.,

W. PEARSON, Acting Chief Accountant.

A 1

List of Lapsed Grants for 1893-94 (payable out of

Date when the Grant was sanctioned.		Balance of the Grant lapsed.	Total Amount lapsed.
	Corporation and Standing Committee's Establishment.	Rs. a. p.	Rs. a. p.
Part of Budget grant for 1893-94, and part of additional grant sanctioned on 5-2-94.	III.—Contingencies, Stationery, Printing, &c.—For printing proceedings of the House Connections Committee and short-hand writers' fees, for printing the index and binding copies of the records of the Proceedings of the Standing Committee and the Corporation and printing minute books, &c.		2,791 3 7
	General Office Establishment.		
25th January 1894.	III.—Law charges—For payment of the Municipal Solicitors' bills for 1893-94	1,788 7 4	
22nd January 1894.	V.—Purchase of glazed moulded coping tiles and quarry glass tympana for future repairs to the Municipal Office Buildings	1,087 0 0	2,875 7 4
	Assessment and Collection Department.		
	Property and Wheel-tax Establishment.		
Budget grant for 1893-94.	III.—Contingencies, Stationery, Printing, &c.—For telephone connections to B, C and E, Ward Offices, (Rs. 600) and rent of B Ward office for February 1894 and Water supply to D Ward office during the quarter ending 31st December 1893	788 5 8	
8th March 1894.	V.—Remuneration to Mr. Stevens for revising the Assessment of Buildings and lands vesting in Her Majesty.	2,500 0 0	3,238 5 8
	Licensing Establishment.		
Budget grant for 1893-94.	Land conveyance License Establishment and contingencies-charges from December 1893 to February 1894		3,526 4 2
	Fire Brigade.		
Budget grant for 1893-94.	II.—Rent, Repairs and Miscellaneous.—Repairs to Fire Stations.—For renewal of flushing tanks for the latrine at Gowalia Tank Fire Brigade Station, and Contingencies.—For water supply to D Ward Station for the quarter ending 31st December 1893	1,783 6 10	
	Telephone connections and alterations.—For cost of telephone connections for the 2nd half of 1893-94..	1,376 0 0	
	IV.—New Buildings.—Interest on Debentures of the Fire Brigade Loan of 4½ lakhs	7,799 5 9	10,958 12 7
	Maintenance of Public Gardens.		
	A.—Victoria Gardens.		
	Maintenance.		
Budget grant for 1893-94.	I.—Establishment	545 8 10	
	II.—Sea sand and contingencies	91 6 11	
	Red Earth and manure	18 7 2	
	Feed of animals	999 7 10	
	Purchase of animals	755 13 0	
	III.—Seeds and plants	220 9 10	
	Labelling plants and printing Catalogues	200 0 0	
	IV.—Monsoon repairs	57 1 3	
	Repairs to buildings	22 2 0	
	Do. Roads...	42 11 4	
	V.—Water supply	58 0 0	
	Water pipes...	38 7 5	
		3,049 11 7	
	Carried over ..	3,049 11 7	23,440 1 4

Current Revenue) to be renewed during 1894-95.

Amount to be renewed.	Total Amount to be renewed.	Savings on the Grant lapsed.	Remarks.
Rs. a. p.	Rs. a. p.	Rs. a. p.	
	2,072 0 0	719 3 7	Bills for the printing, &c., charges were received in 1894-95; Some of the jobs still remain to be completed.
1,788 7 4			The bills were received on 2nd May 1894.
1,083 1 11	2,871 9 3	3 14 1	The bill was received on 31st May 1894.
679 8 0			The bills were received on 31st March 1894.
2,500 0 0	3,179 8 0	108 13 8	The grant was sanctioned only in March 1894.
	2,593 0 1	933 4 1	The bills were received from the Accountant General only on 17th April 1894.
230 8 0			The work of renewing the flushing tanks is in progress The bill for water supply was received only at the close of March 1894.
1,376 0 0			The bill was received only on 31st March 1894.
497 15 9	2,104 7 9	8,854 4 10	The interest was not claimed during 1893-94.
545 8 10			
91 6 11			
18 7 2			
999 7 10			
755 13 0			
920 9 10			
200 0 0			
57 1 3			
22 2 0			
42 11 4			
.....			
38 7 5			
2,991 11 7			
2,991 11 7	12,820 9 1	10,619 8 3	

Date when the Grant was sanctioned.		Balance of the Grant lapsed.	Total Amount lapsed.
	Brought forward...	Rs. a. p. 3,049 11 7	Rs. a. p. 2,441 1 4
	New Works.		
7th September 1893.	Constructing a cage for 2 Kathiawar Lions	3,944 7 1	
29th January 1891.	Net cost of land acquired for the improvement and extension of the Victoria Gardens	31,403 5 2	38,397 7 10
	B.—Elphinstone Circle Garden.		
Budget grant for 1893-94.	III.—Water supply	252 15 1	
5th February 1894.	V.—Repairing and re-erecting the gate of the Elphinstone Circle Garden	2,990 0 0	3,242 15 1
	F.—Bazar Gate Street Garden.		
Budget grant for 1893-94.	IV.—Water supply		86 14 0
	Municipal Engineer's Department. General Supervision and Miscellaneous Duties.		
Do. ...	IV.—Advertisement and contingencies—For advertisement charges incurred during 1893-94		33 2 5
	Drainage.—Miscellaneous Drainage.		
Budget grant for 1893-94.	II.—Inspecting manholes and sewers and cleaning, &c., Miscellaneous Drains and gutters.—For cleaning the open main drain running through the Flats to the storm water Reservoir...	4,548 4 9	
Do. ...	III.—Repairing and altering miscellaneous drains and gutters	4,037 8 3	
Do. ...	IV.—Contingencies, stationery, printing, &c.	199 12 5	
Do. ...	VI.—Telephone connections...	600 0 0	9,385 9 5
	Maintenance of Love Grove Pumping Station.		
D	VIII.—Telephone connection		200 0 0
	Water Works.—Maintenance.		
12th Feb. 1894 ...	III.—Contingencies, &c.—For cost of connecting the water Engineer's Bungalow with Telephone system between Chinchpokli, Sion, Pawai and Bhandup ...		961 4 8
	Streets and Buildings—A.—Inspection and Supervision.		
Budget Grant for 1893-94.	II.—Contingencies, Stationery, Printing, &c.—For advertisement charges incurred during 1893-94		647 15 8
	B.—Public Lighting.		
Do. ...	III.—Kerosine oil lighting—A.—Streets		4,009 14 4
	C.—Road Watering.		
Do. ...	I.—Bhisti Watering.—Stores and other temporary labour ...	3,132 12 9	
Do. ...	II.—Watering by carts—bullocks pairs and stores and other temporary labour	3,696 3 4	
Do. ...	IV.—Proportion ⅞ of cost of cart repairs	1,708 0 5	
Do. ...	V.—Providing 3 hydrants and 1000 feet of Mereweather's Patent line and canvas hose	4,677 15 7	13,214 15 7
	Carried over ...		93,620 4 4

Amount to be renewed.	Total Amount to be renewed.	Savings on the Grant lapsed.	Remarks.
Rs. a. p.	Rs. a. p.	Rs. a. p.	
2,991 11 7	12,820 9 1	10,619 8 3	
3,944 7 1			
31,403 5 2	38,339 7 10	58 0 0	Renewed partly for the payment of liabilities already incurred and for the completion of works in progress and partly for being carried to the credit of the Garden Fund for Improvement Works at the Gardens (*vide* Corporation Resolution No. 7057, dated 17th February 1890).
252 15 1			The bill for the last quarter of 1893-94 was received on 6th April 1894.
2,990 0 0	3,242 15 1	.....	The grant was sanctioned only on 5th February 1894.
	86 14 0	.....	The bill for the last quarter of 1893-94 was received on 5th April 1894.
	33 2 5	.....	The bills were submitted on 31st March 1894.
2,599 0 0			Work in progress.
949 4 1			Some of the repairs works not having been completed by the last year's Petty works Contractor, they have been entrusted to the Contractor for this year and some are being completed departmentally.
40 1 1			Required for repairing brick and cement testing machine.
600 0 0	4,194 5 2	5,191 4 3	The bill was received on 31st March 1894.
	990 0 0	.....	Do. do.
	160 0 0	801 4 8	Required for the payment of charges for connecting the Water Engineer's Bungalow with the telephone system.
	64 4 0	583 11 8	The bills were received on 31st March 1894.
	2,000 0 0	2,009 14 4	500 lanterns ordered during 1893-94 have to be paid for.
649 14 2			For placing additional hydrants in Clerk Road for watering the Road direct from the main.
933 7 10			Required for the placing of additional hydrants in Clerk Road for watering the road direct from the main.
00 0 0			Workshop bills have to be adjusted.
4,677 15 7			For placing hydrants for watering roads direct from the mains.
	6,961 5 7	6,253 10 0	
	68,102 15 2	25,517 5 2	

Date when the Grant was sanctioned.		Balance of the Grant lapsed.	Total Amount lapsed.
		Rs. a. p.	Rs. a. p.
	Brought forward ..		93,020 4 4
	D.—Road Repairs and Maintenance.		
Budget Grant for 1893-94.	I.—Purchase of materials, &c.—Bills for road metal, &c., supplied during 1893-94	3,514 13 1	
Do. ...	III.—Paving footpaths	12,549 9 1	
Do. ...	IV.—Maintenance of steam Rollers &c.,—For Workshop charges for repairs to carts and for the cost of providing counters to new steam rollers	4,365 6 1	
Do. ...	V.—Stores and contingencies—For cost of machines ordered out from England during 1893-94 and sundry other charges	19,695 0 2	
Do. ...	VII.—Water supply to Inspectors' chowkies,—For water supply to D. Ward Office during the Quarter ending 31st December 1893	57 8 0	
Do. ...	VIII.—Stone breaking machine	147 10 4	
Do. ...	IX.—Repairs to bridges, culverts, &c.	2,902 9 0	
Do. ...	XI.—Telephone connections in A, C, and E Ward Offices ..	600 0 0	
			43,832 7 9
	E.—Street Improvements.		
Do. ..	I.—Compensation for land, &c.	62,743 13 9	
Do. ...	III.—Purchase of tin plates and street boards	1,000 0 0	
			63,743 13 9
	Special provision for cleaning, lighting and repairing Port Trust Wharves...		1,200 0 0
	NEW WORKS. **Drainage.**		
Do. ...	Construction of a chowki for the Inspector of Drains at Foras Road	318 7 9	
Do. ...	Engraving numbers on manhole covers	128 0 0	
Do. ...	Erecting metal vent shafts in Abdul Rahman street	2,077 0 0	
Do. ...	Construction of Miscellaneous Drains	1,627 11 11	
	Water Works.		
15th May and 6th Dec. 1893.	Pointing with Indian Patent stone the remaining portions of the inner faces of the outer walls of the Bhandarwada Reservoir Distributing basin	1,788 14 1	
	Streets and Buildings.		
Budget Grant for 1893-94.	Providing latrine and urinal for the Engineer's office at A Ward	600 0 0	
Do.	Making of streets which have become public under the Municipal Act	4,770 0 2	
Do.	Construction of a road across Khandia Tank and extension of Khandia street	4,526 12 9	
Do.	Paving round the statuary and constructing ornamental fencing to the same in front of the New Municipal Office Building and constructing fencing, gates, walls, &c., on the north side of the Private Road to the north of the Building	4,046 1 2	
	Carried over ...	19,782 15 10	2,02,396 9 10

Amount to be renewed.	Total Amount to be renewed.	Savings on the Grant lapsed.	Remarks.
Rs. a. p.	Rs. a. p.	Rs. a. p.	
	68,102 15 2	25,517 5 2	
2,209 0 0			Some of the bills were received at the close of the past year and some during the current year.
12,549 9 1			Work in progress.
1,925 0 0			Workshop bills for cart repairs, &c., have to be adjusted.
19,695 0 2			Certain articles purchased have to be paid for.
57. 8 0			The bill was received only at the close of 1893-94.
147 10 4			Charges for fitting up the machine have to be paid.
2,240 4 0			Cost of repairing the wooden railing at Chinch Bunder Road is to be paid.
279 . 7 3	39,103 6 10	4,729 0 11	The bill was received on 31st March 1894.
62,743 13 9			Required on account of unpaid compensation for plots of land acquired for street improvement and for payment of the cost of improving Borah Musjid Lane and Matharpacadi Road.
1,000 0 0	63,743 13 9	.....	Required for payment of cost of supplies ordered.
	1,200 0 0	.....	The claim for the maintenance of wharves and Roads of the Mereweather Dry Dock is still to be settled.
318 7 9			Work completed, accounts are to be adjusted.
128 0 0			Do. do. do.
2,077 0 0			The petty works contractor for 1893-94 having failed to do the work, revised *estimates* have been prepared and submitted for sanction to entrust the work to this year's contractors.
692 6 4			Some of the works not having been completed by the Petty Works Contractor for the past year, they have been entrusted to this year's contractors.
1,769 14 1			Final accounts to be adjusted.
500 0 0			Under consideration.
4,770 0 2			Work in progress; nearly completed.
4,526 12 9			Do. Do.
2,378 4 7			Work completed; accounts to be adjusted.
17,160 13 8	1,72,150 8 9	30,246 6 1	

Date when the Grant was sanctioned.		Balance of the Grant lapsed.	Total Amount lapsed.
		Rs. a. p.	Rs. a. p.
	Brought forward ...	19,782 15 10	2,62,396 9 10
	Public Health Department.		
Budget Grant for 1893-94.	Latrine for grave-diggers' Chawl at Arthur Road	200 0 0	
Do.	Constructing a 12 Chamber latrine at Worli Middle Pacadi ...	3,010 0 0	
Do.	Constructing a 12 Chamber latrine at Worli Pacadi	2,240 0 0	
Do.	Filling in compound of the Small Pox Hospital at Arthur Road and constructing a slab drain	6,031 0 0	
Do.	Paving and draining the van siding behind the Sheep and Cattle Slaughter Houses at Bandora	9,693 12 3	
7th September 1893	Construction of a sheep and go Matarket at De L'sle Road...	14,162 4 11	
19th February 1894	Construction of a temporary Chawl for the Health Department and Market bigaris on Frere Road	3,268 0 0	
February 1894...	Providing additional machinery and plant for lighting the Arthur Crawford Markets and the Municipal Office Building by electricity and alterations to the driving gear of the dynamo	20,000 0 0	
Do. ...	Moiety of cost of Incinerator payable to Messrs. Garlick & Co.	7,500 0 0	
Budget Grant for 1893-94.	Latrines and urinals	10,150 11 8	
			96,658 12 8
	Public Health Department, Conservancy Branch.		
Budget Grant for 1893-94.	III.—Disposal of Town Sweepings, Erection of a Silchar Incinerator on Government ground on the right hand side of old Sewri Road	1,017 0 0	
Do. ...	IV.—Repairs.—Bills from the annual Repairs Contractors, &c., for repairs, &c., executed during 1893-94 ...	7,480 7 4	
19th Feb. 1894 ...	VII.—Rent.—For the temporary bigaries' chawl at Frere Road	504 0 0	
10th July 1893 ...	XI.—Purchase of a steam-pumping engine for flushing gullies and cost of 11 automatic flushers to be erected in certain districts for the purpose of flushing gullies and sewers	7,701 0 0	
			16,732 7 4
	Markets and Slaughter Houses.		
Budget Grant for 1893-94.	IX.—Contingencies.—Purchase of stamping machines for weights and measures..	2,000 0 0	
12th February 1894.	Leasing the ground floor of the Pinjrapole Committee's office building for occupancy by stall holders of the Bhuleshwar market during the process of pulling down and re-building the markets	8,930 0 0	
			10,930 0 0
	Cemeteries.		
Budget Grant for 1893-94.	II.—Purchase of Live-stock		250 0 0
	Mahaluxmi Dhobiwada.		
Do.	IV.—Repairs.—For repairs executed by the last year's contractor		1,229 5 4
	Hospitals.		
Do. ...	Jaffer Sulliman Dispensary	250 0 0	
Do. ..	Leper Asylum maintenance	1,718 13 11	
			1,968 13 11
12th June 1893 ..	Cost of a casket to contain the address to be presented to H. R. H. the Duke of York on the occasion of his marriagewith the Princess Mary of Teck		2,538 0 0
	Carried over ...		3,32,704 1 1

Amount to be renewed.	Total Amount to be renewed.	Savings on the Grant lapsed.	REMARKS.
Rs. a. p.	Rs. a. p.	Rs. a. p.	
17,160 13 8	1,72,150 3 9	30,246 6 1	
200 0 0			The matter has been allowed to stand over as required by the Health Officer until the question of a Chawl for grave diggers is settled.
3,010 0 0			Land is to be acquired.
2,240 0 0			Do. Do.
6,631 0 0			Contract let. This grant has been renewed as per Standing Commitee's Resolution No. 4419 of 25-7-94.
8,693 0 0			Work in progress.
14,182 4 11			Do.
3,268 0 0			Do.
20,000 0 0			Do.
7,500 0 0			The bill was received on 27th June 1894.
7,833 6 6			The works of constructing urinals in Narayen Dhoroo Street, Musjid Station Road, Jairazbhoy Street and Custom House Road are in progress. The construction of a four seated trough pattern urinal at Palton Road was entrusted to the Petty Works Contractors but the Executive Engineer, Presidency, and the Executive Engineer, Military Works have objected to the site. The construction of a 12 seated water system latrine and a 6 seated trough pattern urinal at Parel Village Road is in progress.
	90,718 9 1	6,940 3 7	
1,047 0 0			Work in progress.
338 0 7			One bill was received on 2nd April 1894. The other bills are in dispute.
501 0 0			The grant was sanctioned only on 19th February 1894.
6,000 0 0	7,889 0 7	8,813 6 9	The engine arrived in April 1894. The work of providing flushers is in progress.
2,000 0 0			The Executive Engineer has been in communication with an English firm in London for the supply of the machines in question.
8,930 0 0	10,930 0 0	.....	The grant was sanctioned only on 12th February 1894.
	250 0 0	.....	One horse is cast and one died from sunstroke. Two new horses are therefore required to be purchased: one from the ordinary grant and the other from the renewed grant.
	991 4 1	238 1 3	Bills received on 11th April 1894.
250 0 0			The contribution for March 1894 was paid in this year.
841 11 0			The unexpended balances of the Municipal and Government contributions have to be paid to the credit of the Leper fund.
	1,091 11 0	877 2 11	
	2,538 0 0	.....	The bill was received on 3rd July 1894.
	2,86,558 12 6	46,145 4 7	

Date when the Grant was sanctioned.		Balance of the Grant lapsed.	Total Amount lapsed.
		Rs. a. p.	Rs. a. p.
	Brought forward ...		3,32,701 1 1
	Municipal Debt—Interest on Loans.		
Budget Grant for 1893-94.	Drainage Loan of 1878	17,200 0 0	
Do.	44 lakhs Sanitary Works Loan	12,712 8 0	
Do.	7 Do. do.	10,075 0 0	
Do.	Tansa Water Works Loan of 147 lakhs	28,725 0 0	
Do.	12 lakhs Drainage and Water Works Loan	14,737 8 0	
Do.	35 Do. Various Sanitary Works Loan	16,437 8 0	
Do.	42 Do. Loan for repayment of Balance of Government Consolidated Loan	18,370 0 0	1,18,257 8 0
	Total...Rs.		4,50,961 9 1

A 2

List of Lapsed Grants for 1892-93 and previous years

Date when the Grant was sanctioned.		Balance of the Grant lapsed.	Total Amonnt lapsed.
	Maintenance of Public Gardens, A.—Victoria Gardens. Maintenance.	Rs. a. p.	Rs. a. p.
Budget Grant for 1892-93.	III.—Labelling plants and printing catalogues...	400 0 0	
	New Works.		
Budget Grant for 1892-93.	New Roads	1,279 12 2	
	Planting and Turfing of the new ground	763 12 0	
	Filling in low ground	8,166 3 7	
	Extending fernery	2 0 5	
	Turnstiles	300 0 0	
Budget Grant for 1890-91.	Special Repairs and alterations to Victoria Garden Roads ...	22 1 8	
	Wall and fencing round the Victoria Gardens...	1,322 10 0	
10th July 1890 ...	Laying 12" Stoneware pipes in the Victoria Gardens ...	163 5 2	
10th Sep. 1890 ...	Constructing ostriches shed in do. ...	100 7 11	
10th July 1890 ..	Do. Deer shed in do. ...	15 8 0	
1890-91	Do. Aquatic Birds' cage in do. ...	130 14 8	
Do.	Do. Small Mammalia cage in do. ...	207 2 2	
Do.	Do. do. do.	30 6 10	
Do.	Do. Bears' Cage	515 8 11	
16th July 1891 ...	Do. New Bungalow for the Superintendent ...	740 7 4	
Do. ...	Do. Refreshment Room	94 10 0	
1891-92	Do. Drains for cages	1,649 7 6	
3rd Dec. 1891 ...	Erection of a 3 chamber latrine on the water closet system in the Gardens...	379 7 1	
1890-91.	Constructing wild beasts' cage	3,970 1 11	
		19,883 15 4	20,283 15 4
	Drainage.—Miscellaneous Drainage.		
28th Aug. 1890 ...	VII.—Altering drainage arrangements at Falkland Road...		1,066 2 2
	Water Works.—Maintenance.		
Budget Grant for 1892-93.	VI.—Repairs to the Tulsi Main Embankment	12,232 9 4	
Do. 1891-92...	VII.—Repairs, alterations and other works in connection with Tanks, Wells and fountains	1,500 8 10	
Do. 1892-93...	VIII.—Repairs to Water Works Buildings	1,222 9 10	14,955 12 0
	Carried over .....Rs.		36,305 13 6

Amount to be renewed.	Total amount to be renewed.	Savings on the grant lapsed.	REMARKS.
Rs. a. p.	Rs. a. p.	Rs. a. p.	
	2,86,558 12 6	46,145 4 7	
17,200 0 0			
12,712 8 0			
10,075 0 0			
28,725 0 0			
14,737 8 0			
16,437 8 0			
18,370 0 0	1,18,257 8 0	.....	The interest was not claimed by the parties on the due dates.
	4,04,816 4 0	46,145 4 7	

payable out of current revenue) to be renewed during 1894-95.

Amount to be renewed.	Total amount to be renewed.	Savings on the grant lapsed.	REMARKS.
Rs. a. p.	Rs. a. p.	R a. p.	
400 0 0			
1,279 12 2			
763 12 0			
8,166 3 7			
2 0 5			
300 0 0			
22 1 8			
1,322 10 0			
163 5 2			
100 7 11			
15 8 6			
130 14 8			
207 2 2			
30 6 10			
545 8 11			
740 7 4			
94 10 0			
1,649 7 6			
379 7 1			
3,970 1 11			
19,883 15 4	20,283 15 4	.....	Renewed partly for the payment of liabilities already incurred and for the completion of works in progress and partly for being carried to the credit of the Garden Fund for Improvement Works at the Gardens (Vide Corporation Resolution No. 7057, dated 17th February 1890).
	1,066 2 2	.....	Work in progress.
6,000 0 0			Work in progress.
1,500 8 10			The works for which the renewal of the grant is required are now completed. Final accounts are to be adjusted.
1,209 2 6	8,709 11 4	6,246 0 8	Work completed. Final accounts to be adjusted.
	30,059 12 10	6,246 0 8	

Date when the grant was sanctioned.		Balance of the grant lapsed.	Total amount lapsed.
		Rs. a. p.	Rs. a. p.
	Brought forward ...		36,305 13 6
	D.—Road Repairs and Maintenance.		
Budget Grant for 1892-93.	III.—Paving footpaths		14,386 4 11
	E.—Street Improvements.		
Do. ...	III.—Purchase of tin plates and street boards		3,905 14 0
	NEW WORKS.		
	Drainage.		
Do. ...	Erection of ventilating shafts on Ripon Road	322 2 6	
Do. 1891-92 ...	Arrangements to flush Parel and Bellasis Road storm water drain	1,057 5 8	
	Water Works.		
Do. 1887-88 ...	Construction of a chawl at Vehar	1,420 11 7	
Do. 1888-89 ...	Additional catch water channels at Vehar	600 0 0	
	Streets and Buildings.		
Do. 1892-93 ...	Extension of the retaining wall at Walkeshwar Road ...	1,296 2 8	
10th Nov. 1892. ...	Reconstructing portion of Gibbs Road	8,953 11 5	
	Public Health Department.		
1888-89 and 1889-90 and 15-1-90.	New night-soil depot at the north end of DeLisle Road ...	3,832 11 10	
Budget Grant for 1892-93.	Fencing the Municipal ground at Dadur	572 0 0	
23-1-90 and 6-2-93. ...	Post Hydrants, buckets, &c., for extinguishing fires at the Arthur Crawford Markets and fire buckets with brackets at the Fort and other markets	4,649 3 2	
8th Dec. 1892 ...	Purchase of land at Pinjrapole Street required as a site for a public latrine...	5,600 2 7	
Budget Grants for 1891-92 and 1892-93.	Latrines and Urinals	17,721 4 3	46,025 7 8
	Municipal Debt.—Interest on Loans.		
Budget Grants from 1886-87 to 1892-93.	Drainage Loan of 1878	2,337 8 0	
Do. ...	44 Lakhs Sanitary Works Loan	4,325 9 0	
Do. 1891-92 and 1892-93.	7 Do. do.	1,825 0 0	
Do. 1886-87 to 1892-93.	Tansa Water Works Loan of 147 lakhs	7,291 1 6	
Do. 1890-91 to 1892-93.	35 Lakhs various sanitary Works Loan	1,526 11 4	
Do. 1888-89 ...	6 Per cent. Local Loans...	17 2 10	
		17,322 7 8	
	Repayment of Loans.		
Budget Grants for 1890-91 and 1892-93.	Drainage Loan of 1878	1,000 0 0	18,322 7 8
	Total ...Rs.		1,18,945 15 9

Amount to be renewed.	Total amount to be renewed.	Savings on the grant lapsed.	REMARKS.
Rs. a. p.	Rs. a. p.	Rs. a. p.	
	30,059 12 10	6,246 0 8	
	14,386 4 11	.....	Work in progress.
	3,905 14 0	.....	Required for payment of cost of supplies ordered.
65 0 0			Work completed, accounts are to be adjusted.
1,057 5 8			The work was stopped as the tank was proposed to be filled in. But as the Corporation declined to allow it to be filled in, the work will now go on.
1,420 11 7			Claims for compensation for land taken up not yet settled as the cases are before the Court, likely to be settled in 1894.
600 0 0			Do. do.
1,296 2 8			Work recommenced.
8,953 11 5			Work in progress.
1,652 0 0			Work completed. Some extra works proposed by the Health Officer have been entrusted to the Petty Works contractor Under consideration.
572 0 0			
2,600 0 0			Work nearly completed ; accounts are being adjusted.
5,600 2 7			The case is pending before the Collector of Bombay.
17,151 13 11			The construction of Latrines and Urinals at Churney Road Garden is completed and accounts are to be adjusted. The site for a 20 seated latrine at Koliwada, Mazagon, has been acquired and the work will be entrusted to the Petty works contractors. The construction of a 20 seated latrine at Purbadevi has been deferred as the Health Officer is of opinion that the work should not be done until the night-soil depot at DeLisle Road has been tried.
	40,968 15 10	5,056 7 10	
2,337 8 0			
4,325 0 0			
1,825 0 0			
7,291 1 6			
1,526 11 4			
17 2 10			
17,322 7 8			The interest was not claimed by the parties on the due dates.
1,000 0 0			Two debentures for Rs. 500 each have not been surrendered for repayment.
	18,322 7 8	.....	
	1,07,643 7 3	11,302 8 6	

B 1

List of Lapsed Grants on account of different loan works, &c.,

Date when the grant was sanctioned.		Balance of the grant lapsed.	Total amount lapsed.	Total amount lapsed under each loan.
	23½ Lakhs loan for Drainage and other works.	Rs. a. p.	Rs. a. p.	Rs. a. p.
6th Feb. 1893 and 28th Sept, 1893.	Colaba Sewerage	1,75,362 2 11		
	Love Grove Engines and Pumps	52,472 2 0		
	Sewerage of Umerkhadi with Kawasji Patel Tank Road Sewer	81,504 7 1		
	Storm water drains in Morland, &c., Roads ...	34,907 13 7		
	Miscellaneous extensions and improvements of drains	30,000 0 0		
	Storm water drains &c., in different places ...	7,519 3 10	3,81,465 13 5	
	Improvements at Malabar Hill Reservoir ...	50,000 0 0		
	Extension of water mains	19,518 14 6	69,518 14 6	
	Warl Bunder Bridge...	37,000 0 0		
	Falkland Road Bridge	13,809 13 0	50,809 13 0	
	Purchase of land on the Flats		1,44,256 1 11	6,49,350 10 10
	Work sanctioned out of Savings on former Loans.			
7th Sept. 1893 ...	9" Pipe Sewer at Lalwadi	2,100 11 11	2,100 11 11	2,100 11 11
	Total Rs...			6,51,451 6. 9

B 2

List of Lapsed Grants on account of different loan works, &c., for 1892-93

Date when the grant was sanctioned.		Balance of the grant lapsed.	Total amount lapsed.	Total amount lapsed under each loan.
	17 Lakhs Loan for Drainage (portion of the 27 lakhs loan).	Rs. a. p.	Rs. a. p.	Rs. a. p.
10th Sept. 1878 ...	Pipe Sewers	32,476 12 3		
	Establishment and Contingencies	1,343 6 9	33,820 3 0	33,820 3 0
	44 Lakhs Sanitary Works Loan. Drainage Works.			
8th Dec. 1881 ...	First Drainage Section—House sullage water Connections without privy fittings ...	2,11,749 4 8		
Do. ...	Automatic flushers at heads of gullies ...	5,570 0 0	2,17,319 4 8	2,17,319 4 8
	7 Lakhs Sanitary Works Loan.			
13th October 1886...	Drainage of the Fort...			9,985 13 10
	Tansa Loan of Rs. One Crore and 47 Lakhs.			
28rd Feb. 1893 ...	Tansa Water Works			70,678 3 3
	Carried over . Rs.			3,31,803 8 9

for 1893-94 which require to be renewed during 1894-95.

Amount to be renewed.	Total amount to be renewed.	Total amount to be renewed under each loan.	Savings.	REMARKS.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
1,75,362 2 11				Work in progress.
52,472 2 0				Required for supplying and fixing Economiser, making and fixing penstock and shelters and providing electric light at Love Grove Pumping Station and for payment of the last instalment to Messrs. Simpson & Co.
84,504 7 1				Works in progress.
34,907 13 7				
30,000 0 0				
7,519 3 10				
	3,84,765 13 5			
50,000 0 0				
19,518 14 6				
	69,518 14 6			
37,000 0 0				Work not yet commenced.
13,809 13 0				Work in progress.
	50,809 13 0			
	1,44,256 1 11			Land has to be purchased.
		6,49,350 10 10	.....	
2,100 11 11				Work in progress.
	2,100 11 11			
		2,100 11 11	.....	
		6,51,451 6 9	.....	

and previous years which require to be renewed during 1894-95.

Amount to be renewed.	Total amount to be renewed.	Total amount to be renewed under each loan.	Savings.	REMARKS.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
32,476 12 3				Work postponed pending inquiry into the House Drainage Connections system.
1 343 6 9				
	33,820 3 0			
		33,820 3 0	.....	
2,11,749 4 8				Work ordered to be stopped pending decision of the Corporation as regards House Connections in general.
5,570 0 0				
	2,17,319 4 8			
		2,17,319 4 8	.....	
		9,935 13 10	.....	Required for Catchpits to be constructed on pipe sewers.
		70,678 3 3	.....	Some minor works not yet completed, and suits by contractors are awaiting hearing.
		3,31,803 8 9	.....	

Date when the grant was sanctioned.		Balance of the grant lapsed.	Total amount lapsed.	Total amount lapsed under each loan.
		Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward ...			3,31,303 8 9
	12 Lakhs Drainage and Water Works Loan.			
28th July 1887 ...	Queens Road House Sullage Water Connections.			2,23,871 11. 4
	Loan of 10,08,500 for Miscellaneous Works.— Markets.			
26th March 1888 ...	New Market at Colaba	49,950 9 4		
Do.	Arthur Crawford Market extension of the Mutton Market	15,917 15 10		
			65,868 9 2	
	Roads.			
Do.	Road through Nowroji Hill		2,63,322 4 0	
				3,29,190 13 2
	Agripada House Sullage Water Connections Loan of Rs. 2,48,000.			
8th October 1888 ...	Agripada House Sullage Water Connections...			9,326. 2 9
	35 Lakhs Various Sanitary Works Loan.			
25th Nov. 1889 ...	Pawai Water Works	2,08,284 8 7		
8th July 1889 ...	Improvement Works at the Malabar Hill Reservoir	7,127 6 10		
			2 15,411 15 5	
13th May 1889 & 11th Jan.	Roads and Streets in Agripada and elsewhere	56,880 5 10		
19th Nov. 1888 ...	Difference between the amount provided in the 10,08,500 loan for Road through Nowroji Hill and the revised estimate sanctioned for the Road in Corporation Resolution No. 5293, dated 19th November 1888	68,148 0 0		
			1,25,028 5 10	
3rd Jan. 1890 ...	Sewer flushing arrangements		2,576 5 9	
17th April 1890 ...	Health Department bullock stables and quarters for Scavengers	1,05,562 14 7		
26th March 1888 ...	Purchase of land at Arthur Road	23,676 0 0		
			1,29,238 14 7	
25th April 1888 ...	Labourers' Quarters in connection with the Aurthur Crawford Markets	22,700 0 0		
9th July 1888 ...	Bhuleshwar Market Extension	1,88,816 0 7		
17th April 1890 ...	New Market at Foras Road	10,119 3 5		
			2,21,635 4 0	
				6,93,890 13 7
	Municipal Building Loan of Rs. 8 lakhs...			
9th February 1891...	Municipal Office Building			1,32,374 5 0
	Carried over ...Rs.			17,20,457 6 7

Amount to be renewed.	Total amount to be renewed.	Total amount to be renewed under each loan.	Savings.	Remarks.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
		3,31,803 8 9	.....	
		1,17,147 4 9	1,06,724 6 7	Rs. 15,000 are required for constructing catchpits, &c., Rs. 52,147-4-9 have been appropriated in 1894-95, to meet the cost of Sewerage of Parel on the gravitation system and Rs. 50,000 have been sanctioned to meet excess on the Colaba Sewerage works.
49,950 9 4				Work in progress,
15,917 15 10	65,868 9 2			Building completed. Accounts not closed on account of certain disputed items of work.
	2,03,322 4 0			
		3,29,190 13 2	.....	Negotiations for purchase of property have been renewed.
		9,326 2 9	.....	HouseConnections work is stopped in accordance with Corporation Resolution No. 3142 dated 30th June 1892.
2,08,284 8 7				Land compensation cases not yet settled.
7,127 6 10				Required for further work still to be undertaken.
	2,15,411 15 5			
56,880 5 10				Works are in progress.
68,148 0 0				Vide above remarks against Road through Nowroji Hill.
	1,25,028 5 10			
	2,576 5 9			Work was being executed departmentally and was stopped for some time as the height of sewage in the sewers did not allow it to be carried out. It is now being carried out departmentally.
1,05,562 14 7				Revised estimates asked for are being prepared.
23,676 0 0	1,29,238 14 7			Negotiations are going on.
22,700 0 0				As a common chawl for the Health Department and Market Bigaries is sanctioned to be erected at Bori Bunder, this amount is to be utilized for the same.
1,88,316 0 7				Plans submitted to Government and the work has not yet been commenced.
10,119 3 5				Work completed, but final accounts are to be adjusted.
	2,21,635 4 0			
		6,93,890 13 7	.....	
		70,497 7 11	61,876 13 1	Minor extra works and alterations are in progress. Final accounts of the Building contractors settled in 1894-95.
		15,51,856 2 11	1,68,601 3 8	

Date when the grant was sanctioned.		Balance of the grant lapsed.	Total amount lapsed.	Total amount lapsed under each loan.
		Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward ...			17,20,457 6 7
	4½ Lakhs Fire Brigade Loan.			
3rd Sept. 1891 ...	Land and Buildings for Fire Brigade			2,71,714 15 7
	Works sanctioned out of Savings on Former Loans.			
14th January 1892...	Construction of the residence of the Chief Inspector of Water Works	46,360 0 0		
Do. ...	Covering the storage basin of the Bhandarwada Reservoir and constructing filters over it	42,879 3 0	89,239 3 0	
Do. ...	Main Sewerage of Parel	51,956 2 9		
25th July 1892 ...	Branch pipe sewers at Parel	13,563 9 11		
14th January 1892...	Arching over Main drain at Arthur Road ...	5,736 9 7	71,256 6 3	1,60,495 9 3
	Advances for Works for which Loans are not sanctioned or raised.			
16th June 1892 ...	Connections at Chinchpokli between Vehar and Tansa Mains		399 4 5	
16th February 1893..	Health Department Stables in F and G Wards	59,481 8 3		
Do. ...	Health Department Bigarries' Chawl at Bori Bunder	51,791 1 4	1,11,272 9 7	1,11,671 14 0
	Loan Works Establishment Fund.			
8th December 1881..	Establishment for House Sullage Water Connections 1st Drainage Section			14,105 8 0
	Total Rs...			22,78,445 5 5

Amount to be renewed.	Total amount to be renewed.	Total amount to be renewed under each loan.	Savings.	REMARKS.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
		16,51,856 2 11	1,68,601 3 8	
		2,71,584 7 9	130 7 10	Some of the works are in progress and some have been completed.
46,360 0 0				Work will be commenced when the filling in has properly subsided.
42,879 3 0	89,239 3 0			Work in progress.
54,956 2 9				Work completed. Accounts to be adjusted. Savings that may accrue after adjusting accounts to be utilized for House Connections work.
13,563 9 11				Work completed; accounts to be adjusted.
3,058 0 0				Work completed; accounts to be adjusted.
	68,577 12 8	1,57,816 15 8	2,678 9 7	
	309 4 5			Work will be completed as soon as the dispute with the G. I. P. Railway is settled.
59,481 8 3				Work in progress.
51,791 1 4				Work not commenced pending the construction of the temporary Chawl at Frere Road.
	1,11,272 9 7	1,11,671 14 0	.....	
		14,105 8 0	.....	
		21,07,035 0 4	1,71,410 5 1	

No. 19619 of 22*nd November* 1894.

Forwarded to the Municipal Solicitors for favour of opinion.

H. A. ACWORTH, Commissioner.

BOMBAY, 29*th November* 1894.

To H. A. ACWORTH, Esq., Municipal Commissioner.

SIR,—We have the honour to return the papers forwarded for opinion with your No. 19649, dated the 22nd instant. The questions upon which, as we understand, we are asked to advise are :—(1.) Whether under Section 132 of the Municipal Act, the Standing Committee can sanction the expenditure of an unexpended budget grant during any year except the year next following that for which such grant was budgetted for and adopted. (2.) Whether an unexpended balance of a budget grant for work to be executed from Loan funds is on the same footing in this respect as a grant sanctioned from current revenue. (3.) If it be so, whether such budget grant for loan work is to be treated as dating from the date of the sanction of the Corporation or from the commencement of the Budget year, or from the date of the raising of the loan.

Upon the 1st question we are of opinion that Section 132 does not admit of the Standing Committee sanctioning the expenditure of the unexpended portion of a budget grant during any year, except the year *next* following the year for which such grant was budgetted for and adopted. Consequently it is not, we think, competent to the Standing Committee to sanction the expenditure during the present year of the lapsed grants for 1892-93 and previous years, referred to in para. 8 of the Chief Accountant's letter No. 3477, dated the 21st instant. As to the 2nd question we consider that an unexpended balance of a budget grant for work for which a loan has been or is to be obtained, is on precisely the same footing, as regards the Standing Committee's power under Section 132, as a grant sanctioned from current revenue. We think the present practice of budgetting for expenditure on Loan works as well as on works to be executed out of current revenue, is correct, and is indeed necessary, under sections 125 and 126 of the Municipal Act, the separate budget for Loan works referred to by the Chief Accountant in para. 11 of his letter is in reality a part of the "budget estimate" for the year and section 132 applies, we think, to that part just as much as to any other. And this leads us, we think, to the correct answer to the 3rd question. Expenditure on works to be executed from Loan funds has to be budgetted for in the budget estimate for the year and adopted under section 130 just as other expenditure has, and when so adopted it becomes a budget grant for the year to which the budget estimate relates, if not expended during that year, whether because the loan has not

been raised or for any other reason, it lapses, subject, however, to the power of the Standing Committee, under section 132, to sanction the expenditure of the money during the next following year, but not afterwards.—We have, &c.,

CRAWFORD, BURDER & Co.

No. 20417 of 1894-95.

4th December 1894.

The Chief Accountant's letter with the Solicitors' opinion and the lists referred to by the Chief Accountant are forwarded to the Municipal Secretary in reference to the Standing Committee Resolution No. 6998 of the 19th September last.

H. A. ACWORTH, Commissioner.

No. 10700. *Resolved* : "That, as applied for by the Commissioner in his memorandum No. 20417, dated 4th December 1894, sanction be given (1) to the renewal of lapsed grants for 1893-94, payable out of current revenue, amounting to Rs. 4,01,816-4-6 as per detailed Statement A1, and (2) to the renewal of lapsed grants for the same period on account of loan funds, amounting to Rs. 6,51,451-6-9 as per detailed Statement B 1, accompanying the Chief Accountant's letter to the Commissioner No. 3477, dated 21st November last.

"That in respect of the lapsed grants for 1892-93 and previous years payable out of current revenue and loan funds, the Corporation be recommended to sanction (1) the renewal of grants from current revenue, aggregating Rs. 1,07,643-7-3 as per list A2, to the debit of the available balance of the sum of Rs. 5,12,459-11-9 reserved from cash balance for the renewal of such grants and (2) the renewal of grants on account of Loan Works, aggregating Rs. 21,07,035-0-4 as per list B2, to the debit of the allotments for the respective works included in the said list."

No. 10701. *Resolved* : "That the report of the Health Officer for the 3rd Quarter of 1894, be passed on to the Corporation."

No. 10702. *Resolved* : "That the consideration of the following be postponed until the next meeting :— Letter No. 20894, dated 10th December 1894, from the Commissioner to the Secretary, request

ing sanction to a grant of Rs. 14,000 from Surplus Cash Balance, to meet probable excess on the Water Works Materials Grant up to the end of the current financial year."

Proposed by S. Rebsch, Esq., seconded by A. G. Viegas, Esq.—

"That the following be forwarded to the Commissioner for favour of early report:—Letter, dated 27th December 1894, from Mr. Abraham Daniel Pezarkar and others, complaining of the temporary drainage operations at Paidhoni, causing inconvenience and nuisance.

No. 10703.

2. "That the Commissioner be asked to state whether it would be possible to make a stipulation in future drainage contracts that no part of the work shall be kept open longer than certain periods to be fixed."

The Chairman ruled that under the terms of sections 67 and 69 of the Act, the para. 2 of the motion was out of order.

Para. 1 of the proposal was *carried*.

Read the following:—

No. 52. KHETWADI, 3RD LANE.

BOMBAY, *4th October* 1894.

To

ABDULLA MEHERALLI DHARAMSI, Esq., B.A.,
President, Municipal Corporation, Bombay.

SIR,—I beg leave respectfully to invite the attention of the Corporation over which you have the honour to preside, to their letter No. 4347, dated 25th July 1891, to my address, respecting the open side gutters nuisance in Khetwadi.

2. The matter has so often been placed before the Municipality during the last 9 years that it is needless to recapitulate details beyond indicating briefly the nature of the relief sought in the words of Sir E. C. K. Ollivant, the late Municipal Commissioner, Bombay, who inspected the locality in April 1890. In para. 3 of his Memorandum, dated 16th April 1890, he wrote:—

"There is one other matter, and in my opinion a very important one in respect of which much good may result from Municipal action, and that is in the improvement of the side drains. I do not know any object on which the Miscellaneous Drainage Grant of the current year can be better expended than the improvement of the side drains of Khetwadi, especially in 3rd

"Khetwadi Street and in Khetwadi Back Road. Owing to "defects in the grade of these drains some of the sullage in the "side drain of Khetwadi Back Road gets ponded up in the side "drains of 3rd Khetwadi Street, and adds to the nuisances which "I have already enumerated. We know, of course, that there "should be now no sullage in these drains, and I think tempta- "tion would be avoided if, as far as possible, they were covered "with slabs or replaced by water tables, but in any case even for "dealing with storm water alone, the grade should be carefully "regulated, and I hope this subject will receive the prompt consi- "deration of the Executive Engineer."

3. The residents of Khetwadi are glad to learn that the necessity of improving the surface drainage of the locality has at last been recognized, and that an item of Rs. 90,970 has been entered in the current year's Municipal Budget Estimates, under Loan works, for "storm water drains in the Khetwadi District."

4. As half the year has, however, already passed, and no application, as far as our information goes, has yet been submitted for sanction to this expenditure, I would respectfully ask that the Corporation be moved to authorize the work in question being put in hand, the requisite funds being, if necessary, advanced from other grants as is usually done in cases needing prompt action.

5. As the foul and insanitary condition of lower Khetwadi is in no inconsiderable measure due to these open, stagnant gutters, and the matter, therefore, involves a grave question of health, the Corporation will, we hope, see their way to give us soon the relief we have prayed for these last 9 years.—I beg, &c.,

ANANDRAO R. TALCHERKAR.

No. 21961 OF 1894-95.

24th December 1894.

TO THE MUNICIPAL SECRETARY.

SIR,—In reference to the Standing Committee Resolution No. 7387 of the 10th October 1894, I have the honour to report that the Standing Committee have struck out of the Budget Estimates for 1895-96, the entire item, relating to storm water drains at Khetwady.

Under the circumstances nothing for the present can be done.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved: "That letter No. 21961, dated 24th December 1894, from the Commissioner to the Secretary, reporting on petition, dated 4th October last, from Mr. Anandrao R. Talcherkar on the subject of the drainage of Khetwady, be forwarded to the Corporation for information.

No. 10704.

Considered letter, dated 21th May 1894, to the Secretary, as under :—

SIR,—With reference to your letter No. 13761 of the 17th March last, I beg to inform you that nothing has been done yet in regard to the nuisance on the west side of my property at Foras Road, nor Mr. Kasam Jamal, the owner of the low-lying ground there, called upon to fill in the same, and as the rainy monsoon is fast approaching and the nuisance will be all the same and even more as the Vagree people have been allowed to stop in the said open space who do all sorts of nuisance, and my tenants complain about it. I have therefore to request you to be good enough to get the said nuisances remedied.—I have, &c.,

NOOR MAHOMED JAIRAZBHOY PEERBHOY.

Read letter No. 21962, dated 24th ultimo, from the Commissioner to the Secretary, as under :—

SIR,—Referring to the Standing Committee Resolution No. 2488 of the 6th June 1894, I have the honor to state that Mr. Kasum Jamal, who claimed the ownership of the ground, was called upon to fill it in, and on his failure to carry out the work, proceedings were instituted against him. Before the Magistrate he expressed his inability to comply with the demand of the Municipality on the plea of not having any access to the land. He was allowed access to it over the Municipal land for a period of 30 days, which I considered was amply sufficient for him to fill it in. He, however, did not comply with the Municipal requirements, nor did he appear in court when further summoned. The Magistrate had therefore to order a warrant to issue. The Health Officer now reports that Kasam Jamal's statement is that he has no money to carry out the required work, and that it is useless to go on prosecuting him as he is unable to do anything in the matter and suggests that the land may be acquired by the Municipality for Municipal purposes. I am, however, now informed that the ground has been or is to be purchased by Mr. Noormahomed Jairajbhoy. If the agreement to purchase falls through on any account I will consider the question of acquiring it for Municipal purposes under the Land Acquisition Act. If it is acquired by Mr. Noormahomed I will take steps to induce him to fill it in.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : "That with reference to his application, dated 24th May last, regarding a nuisance existing in Foras Road, Mr. Noor-Mahomed Jairazbhoy Peerbhoy be informed that the Standing Committee are given to understand that he is now the owner of the land on which the nuisance

No. 10705.

exists and that under the circumstances the Committee trust he will be good enough to arrange at once for the spot in question being put into proper sanitary condition."

The following statement* was laid on the table :—

The statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 30th December 1894.

Considered petition, dated Mahim, 26th December 1894, to G. Roughton, Esq., Chairman, Standing Committee, from Dr. DeMonte and numerous other inhabitants, as follows :—

SIR,—We the undersigned residents and rate-payers of Mahim, Dadar and Parbhadevi have learnt with extreme anxiety that the Bombay Municipality has invited tenders for the supply of sand-stone for its use for the next year, procurable from within the limits of Bombay.

It must be in the recollection of the Committee that from time to time complaints were made to the Municipality regarding the mischievous effects produced by large excavations of coccanut oarts by contractors who supply sand-stone to it.

Two years ago when a strong representation on this subject was made to the Corporation requesting that body to stop the nuisance caused by digging the oarts situated in this suburb, the Municipal Commissioner assured that he would see that the contracts for the supply of sand-stone in future would be given for such contractors as would supply the same from without the Municipal limits of Bombay.

We need not dilate upon the mischievous effects of the excavated oarts upon the health of the people living in this suburb as such oarts remain a standing nuisance to our district and become a fruitful source of fearful diseases, such as remittent fever, intermittent fever, diarrhœa, dysentery, &c. On this point we beg to solicit the favour of your referring to the opinion of Dr. Weir, the Health Officer of Bombay.

It was a great consolation to us when last year we observed that the contract was given to a contractor on the distinct understanding that he was to supply the (gadda) sand-stone from outside the Municipal limits. To our great surprise we now see that the Municipal Commissioner has invited tender for the supply of the same within the Municipal limits perhaps with the view to effect nominal economy in expenditure.

* *See* Appendix B.

We, therefore, respectfully request you to be good enough not to accept any tender for the supply of sand-stone within the Municipal limits, but to move the Committee to accept a tender for the supply of sand-stone from places outside the Bombay limits as it has been done at present.—We have, &c.,

D. A. D'MONTE.

ARDESHIR F. UNWALLA, and others.

No. 10706.

Resolved:—"That in reply to their petition, dated 26th ultimo, from Dr. D. A. D'Monte and others be informed that the Standing Committee will consider their objection in regard to the supply of sand-stone from within the city at the time of the acceptance of the tender of the contract for the supply of sand-stone for the city".

The seal of the Corporation was affixed to the following deeds of contracts:—(1) with Haji Casum & Co. for the supply of clothing to the Municipal havildars and peons; (2) with ditto for the supply of clothing to the Water Works and Fire Brigade Department; (3) with Messrs. Bibra Hirji & Co. for the construction of storm water drain with manholes, and water gullies in Cruickshank Road; (4) with Messrs. Deoram Kesheoji for the construction of B & C Ward Offices for the Engineering Department at Null Bazaar; and (5) with Messrs. Walshe, Lovett & Co. for the supply of water meters and fittings."

BOMBAY, *9th January* 1895.

AT the meeting of the Standing Committee held this day, there were present:—

G. W. ROUGHTON, Esq., *Chairman*.

COWASJEE HORMUSJEE, Esq., C.C.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM, C.I.E.; HURKISONDAS NURROTUMDAS, Esq.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, Esq.; K. M. SHROFF, Esq.; S. REBSCH, Esq., Asso. M.I.C.E.; R. H. VINCENT, Esq., C.I.E.; CAPTAIN W. P. WALSHE.

H. A. ACWORTH, Esq., I.C.S., Commissioner; and the SECRETARY.

The minutes of the Meeting held on the 2nd instant, were signed.

The Seal of the Corporation was affixed to deeds of contract (1) (in duplicate) with Messrs. Mistry Bhedwar Wachaghandy & Co., for work in pipe sewers manholes, automatic flush tanks and metal vent shafts in

and for a portion of the Parel Sewerage Works; and (2) with Messrs. C. J. Khambatta & Co. for the supply of 100 tons of Powell's Duffryn Cardiff coal and 375 tons of Davison's West Hartley coal.

The seal was also affixed to the following debentures :—30 consolidated debentures of the Bombay Municipal Sanitary Works Loan of 1885, Nos. 4140-4149 N.N. to 4430-4439 N.N., of Rs. 5,000 each. 2 subdivided debentures of the Municipal Building Loan, Nos. 1393 and 1394, of Rs. 500 each. 2 Do. do. of the Tansa Water Works Loan, Nos. 29159 and 29160, of Rs. 500 each. 23 attested duplicate debentures of the Bombay Municipal Sanitary Works Loan of 1885, Nos. 3105 N.N. to 3108 N.N., 3381 N.N. to 3388 N.N. and 3464 N.N. to 3474 N.N., of Rs. 500 each. 4 Do. do of the Tansa Water Works Loan, Nos. 3849, 14026, 14027 and 14059, of Rs. 500 each. 7 Do. do. Nos. 9559-60, 12885-86, 13077-78, 13123-24, 13125-26, 13233-34, and 13235-36, of Rs. 1,000 each. 4 Do. do. of the 35 Lakhs Various Sanitary Works Loan, Nos. 101 to 104, of Rs. 500 each. 4 Do. do. of Bombay Municipal (Drainage) Loan of 1878, Nos. 3022 to 3025, of Rs. 500 each. 1 Do. do. of the 42 Lakhs Loan for Repayment of Balance of Government Consolidated Loan No. 7118, of Rs. 500.

Resolved: "That as applied for by the Commissioner, in his Memoranda Nos. 22525 and 22526, dated 7th instant, sanction be given under section 351 (2) of the Municipal Act, to the removal of the following structures built without permission :—

No. 10995.

Names of owners.		Where.
Mr. Byramji Edulji Wacha	Shed at	Walkeshwar Road.
„ Narsoo Naga	„	„ Dharavi Road."

Resolved: "That as applied for by the Commissioner, in his Memorandum No. 22949, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 10996.

Considered letter No. 22182, dated 3rd instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to request, under section 59 (1) (a) of the Municipal Act that, subject to the confirmation of Govern-

ment, the Standing Committee will be pleased to grant me furlough for one year from the 6th April next. I have ascertained from the Accountant General that, under the rules of the service to which I belong, I am entitled to the leave applied for, and that my furlough allowance will be paid by Government.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 10997. *Resolved:* "That the Standing Committee assent to furlough being granted by Government to Mr. H. A. Acworth, I. C. S., Municipal Commissioner, for the period of one year from 6th April next."

No. 10998. *Resolved* :" That, as applied for by the Commissioner, in his letter to the Secretary, No. 22034, dated 28th ultimo, the Standing Committee approve, under the terms of section 216 of the Municipal Act, of the writing off of Rs. 85-1-1 being the amount of irrecoverable bills for property, &c., taxes as per list submitted with the letter.

"That in respect of the amount of Rs. 15 (item No. 2 in the list) the Commissioner be requested to apply to the executors of the late Mr. G. E. Schofield for payment thereof."

Considered the following: letter No. 22501, dated 5th instant, from the Commissioner to the Secretary.

SIR,—Referring to the concluding para. of the Standing Committee Resolution No. 1924 of the 16th May 1894, I have the honour to report that a demand draft for the value of the hose has been obtained at 1*s.* 15/16*d.* which causes an excess of Rs. 279-10-5 over the budgetted provision of Rs. 6,000. I have directed that this excess be met from my discretional contingencies.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 10999. *Resolved* : " That letter No. 22501, dated 5th instant, from the Commissioner to the Secretary, be *recorded.*"

Considered the following :—

No. 21251 OF 1894-95.

BOMBAY, 14*th December* 1894.

TO THE HEALTH OFFICER.

MEMO.—While discussing the analysis of water at the Standing Committee on the 12th instant, the members expressed a doubt in regard to its correctness. The Health Officer is therefore requested to submit fresh analysis prepared by himself for submission to the Standing Committee next Wednesday.

H. A. ACWORTH, Commissioner.

No. 31137 OF 1894-95.

BOMBAY, 19*th December* 1894.

TO THE COMMISSIONER.

I understand the only question is the quality of Tulsi water.

Subject analysis of *Tulsi water.*

The following is the result of my last analysis of Tulsi supply :—

Unfiltered Tulsi water taken from the inlet well of Malabar Hill Reservoir on 17th December 1894.

	Parts per Million.
Free Ammonia	·005
Alb: Ammonia.....	·21

Filtered Tulsi water taken from the siphon well (No. 1 filter) of Malabar Hill Reservoir on 17th December 1894.

	Parts per Million.
Free Ammonia	·01
Alb: Ammonia	·11

These results so far as the filtered water are more favourable than before. The unfiltered water is very much the same as it has been.

T. S. WEIR, Health Officer.

No. 21751 OF 1894-95.

BOMBAY, 20*th December* 1894.

TO THE HEALTH OFFICER.

I am very much struck and I daresay the Standing Committee will be with the analysis of unfiltered Tulsi water and I should have been glad if the Health Officer had endeavoured to throw some light on the subject. The following analyses taken in the same month during each of the last three years may be compared with the present one :—

1st December 1891.	
Free Ammonia	·10
Alb. Ammonia	·15
(of also	
5th January 1892.	
Free Ammonia	·04
Alb. Ammonia	·17
2nd December 1892.	
Free Ammonia	·06
Alb. Ammonia	·12
22nd December 1893.	
Free Ammonia	·02
Alb. Ammonia	·12

All the above are analyses of unfiltered Tulsi water. The high proportion of Alb. Ammonia in the analyses taken this month is something which I cannot explain.

H. A. ACWORTH, Commissioner.

No. 31183 of 1894-95.

Bombay, 31*st December* 1894.

To the COMMISSIONER.

Sir,—In reference to your memo. No. 21751, of the 21st instant, I have the honour to state that in my opinion any explanation in regard to the causes of a phenomenon of this nature must be conjectural and it may be fallacious. To me there is little surprising in the fact that the results so far as "Alb. Ammonia" are not exactly alike in different years. It is not to be expected considering the very delicate changes indicated by the delicate form of analysis adopted. To attempt to explain why the results in one year differ from the results in some other year is not likely to lead to any understanding of the question nor to explain the difference in the results. It seems however to have escaped your notice that the organic impurity in January 1892 and in this year as shown in the analysis the Commissioner refers to in his letter, are nearly the same.

For instance—

	Free Ammonia.	Alb. Ammonia.
1892	·04	·17
1894	·005	·21

These results indicate very nearly the same impurity but different state of the vegetable matter. The analysis shews that the water is less oxydized in this year than it was in some previous years. Going further back than the three years 1891, 1892, 1893 taken by the Commissioner and taking the results of examinations by the Chemical Analyser to Government, I find the results not unlike the results given by my examination this month. For instance, referring to the year 1890, in February of that year, the results in Alb. Ammonia were ·20 parts per million, while the quantity of Free Ammonia was very large being ·29. It has to be remembered that these results are in decimal parts of a million. When the Commissioner writes "the high proportion of Alb. Ammonia in the "analyses taken this month is something which I cannot explain." I take it that the Commissioner has in mind and intends to refer to the organic matter in the Tulsi water and that he intends to say that the impurity indicated in the Tulsi water is something which he cannot explain, I need not say that the high proportion of Alb. Ammonia is due to the high proportion of organic matter. There are explanations of the impurity of the Tulsi water as compared with this time last year that occur to me, but I feel that an explanation offered by one who has not been living at Tulsi for some time and observing the lake, would be of little value. The experience we had this year of the extra ordinary growth of vegetable matter in the water must make us careful in venturing to express an opinion. In the special report I wrote

on the impurity of Tulsi water in the last hot season, I believe, I suggested that the vegetable life of the lakes should be carefully studied and it can only be done by one living at the lakes and until this is done, opinions in regard to the changes in the quality of the water must be open to serious doubt.—I have, &c.,

T. S. WEIR, Health Officer.

No. 22497 OF 1894-95.

5th January 1895.

Copy forwarded to the Standing Committee.

The Health Officer's last letter is of great interest. Everything points to the importance of filtration.

H. A. ACWORTH, Commissioner.

No. 11000. *Resolved* : "That Memorandum No. 22497, dated 5th instant, from the Commissioner, forwarding fresh analyses of the Tulsi Water and copy of the Health Officer's report thereon, be *recorded.*

No. 11001. *Resolved* : "That, as applied for by the Commissioner, in his memorandum No. 22366, dated 5th instant, the Corporation be recommended to sanction the writing off of Rs. 463-9-7 from the live stock return of the Fire Brigade Department, being the difference between the book value (Rs. 475), and the sale proceeds (Rs. 11-6-5) of one horse sold on the 1st ultimo.*"

No. 11002. *Resolved* : "That the consideration of the following be further postponed until the next meeting :—Letter No. 20894, dated 10th December 1894, from the Commissioner to the Secretary, requesting sanction to a grant of Rs. 14,000, from Surplus Cash Balance, to meet probable excess on the Water Works material grant, up to the end of the current financial year."

No. 11003. *Resolved* : "That, in reply to his letter dated 5th instant, on the subject of the drainage of his property No 72, Currey Road, Mr. Janardhan Ransord be informed that the Corporation have only sanctioned the provision of house connections at Municipal cost in the First Drainage section which does not include Currey Road."

* This horse was purchased on 28th April 1891, and sold on account of injury to its hip and knee cap.

Resolved: "That, in reply to his letter, dated 7th instant, on the subject of the Assessment of his property situated at 2nd Nowroji Hill Road, Street No. 12-20, Mr. Goculdas Anandji Pitharia be informed that if he desired to appeal against the levy of taxes in respect of his property, his proper course was to apply to the Court of Small Causes and that the Standing Committee has no power to interfere in the matter."

No. 11004.

The following statement* was laid on the table: —

The statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 6th January 1895.

Considered letter No. 22856, dated 8th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honor to report that Mr. Sorabji Navroji Moosa, Metal Contractor for the current year, has not been supplying metal as required by the Executive Engineer. He has supplied up to the end of November last 10481 brass of metal out of 12712 brass indented for. From the way he has been supplying the metal, the Executive Engineer thinks that he cannot adequately meet the indents that will be sent to him, at present, the roads are not properly attended to on account of the short supply of metal. There is an unexpended balance of Rs. 48,000, out of the allotment for 8 months on Road Repairs work up to the end of October 1894.

Under the circumstances, I request the sanction of the Standing Committee to purchase 3000 brass of metal from Messrs. Teju Kaya and Co. at Rs. 5-11-0 per brass, the rate at which Mr. Moosa has contracted to supply metal. In anticipation of the sanction of the Standing Committee, I have authorised the Executive Engineer to purchase 700 brass of metal from Messrs. Teju Kaya & Co., at the rate given above on his representing to me the urgent necessity for purchasing it.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved: "That as applied for by the Commissioner, in his letter to the Secretary, No. 22856, dated 8th instant, sanction be given to the purchase of 3000 brass of road metal from Messrs. Teju Kaya & Co., at Rs. 5-11-0 per brass."

No. 11005.

* *See* Appendix B.

BOMBAY, *16th January* 1895.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM; HURRISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, ESQ.; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPTAIN W. P. WALSHE.

H. A. ACWORTH, ESQ., I.C.S., Commissioner; and the SECRETARY.

The minutes of the Meeting held on the 9th instant were signed.

The seal of the Corporation was affixed to the following Debentures :—1 attested duplicate consolidated debenture of the Bombay Municipal (Drainage) Loan of 1878, Nos. 1738-1757, of Rs. 10,000. 3 attested duplicate debentures of the Tansa Water Works Loan, Nos. 197 to 199, of Rs. 500 each. 1 *do.* do., Nos. 9571-72, of Rs. 1,000. 2 attested duplicate debentures of the Bombay Municipal Sanitary Works Loan of 1885, Nos. 3340 N.N. & 3341 N.N., of Rs. 500 each.

The seal was also affixed to deed of contract with Messrs. Burn & Co., Ranigunj, for the supply of stoneware pipes, junctions, &c.

Resolved: "That, as applied for by the Commissioner, in his memoranda Nos. 23120, 23121 and 23122, dated 10th instant, sanction be given under section 351 (2) of the Municipal Act, to the removal of the following structures built without permission :—

No. 11451.

Names of owners.	Where.
Mr. Karsondas Valabhdas	Privy at Dongarsi Road.
„ Adamji Abdool Ali	Building at 14 Passage B, Gunpowder Road.
„ Devidin Saba	Building at No. $\frac{18}{28}$, Ghorupdeo Road."

Resolved : "That, as applied for by the Commissioner, in his memorandum No. 24030, dated this day, sanction be given to the cutting off of water connections, as per list submitted therewith."

No. 11452.

Read letter No. 23757, dated 14th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to forward a table showing the results of invitation of tenders for disinfectants for 1895-96 for one year.

CARBOLIC ACID POWDER.

The lowest tenderer is Messrs. Treacher & Co., Rs. 777-12-0 per month. The Health Officer suggests that one month's supply should be taken from them, and that Messrs. John Fleming & Co. should be asked to supply, for the remaining eleven months, "Calvert's Carbolic Acid Powder," at the rate at which the present contractors, Messrs. R. Ramchandra & Co., offer to supply Fletcher's Carbolic Acid Powder, viz., Rs. 1,159 per month. I do not see how such an arrangement is to be made, nor do I imagine Messrs. Treacher & Co. would consent to it. Messrs. Treacher & Co.'s Carbolic Acid Powder would no doubt be Bombay-made, as the Health Officer says, and he also says "Calvert's is undoubtedly the most useful powder." Under these circumstances we should either choose the Bombay-made powder for the year at Rs. 777-12-0 a month, or take the better article, viz. Calvert's at Rs. 1,336-14-8 a month, or Rs. 559-2-8 more. The Health Officer considers it would be unsafe to take the Bombay-made powder "till it has been well tested by experience." I recommend, therefore, that the contract be given to Messrs. John Fleming & Co. for Calvert's Carbolic Acid Powder, but that it be slightly reduced (say 10 per cent.) in amount, and the balance be Bombay-made powder from Messrs. Treacher & Co. at the best rate that can be got. If the Standing Committee agree, I will arrange for this.

SANITAS.

Messrs. John Fleming & Co. are the lowest tenderers and I recommend their tender for acceptance.

CARBOLIC ACID.

The lowest tenderer is Treacher & Co., whose tender should be accepted.

CRESOL.

The lowest tenderer is the present contractors, R. Ramchandra & Co., but they have given a great deal of trouble, and I cannot recommend that they should be re-employed. Messrs. John Fleming & Co. might be asked to supply Cresol at their rate, Rs. 39.—I have, &c.,

H. A. ACWORTH, Commissioner.

Read also letter No. 23758, dated 14th instant, from the Commissioner to the Secretary, as under :—

SIR,—In continuation of my No. 23757 of this day's date, I have the honour to enclose a letter from Messrs. John Fleming & Co., in view of which I withdraw the recommendation to give the contracts for carbolic acid powder, sanitas, and cresol to them, as I am unable to say now what their rates may come to. The contract for carbolic acid powder had better be given under the circumstances to Messrs. Treacher & Co. in reliance on the reputation of the firm and the 15 per cent. test.

SANITAS.

If Messrs. Treacher & Co. will not supply this, it had better be procured departmentally.

CRESOL.

This also should be offered to Messrs. Treacher & Co., on the terms on which it was proposed to offer it to Messrs. John Fleming & Co. I regret that the delay in the Health Department in sending up the tenders with the necessary remarks should have introduced these complications.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : "That, with reference to letters Nos. 23757 and 23758, dated 14th instant, from the Commissioner to the Secretary, sanction be given to the acceptance of Messrs. Treacher and Company's tender for the supply of the following disinfectants during 1895-96 :—

No. 11453.

15 per cent. Carbolic Acid Powder	Rs.	12	12	0	per box of 200 lbs. net.
Carbolic Acid.....	„	14	0	0	per 5-gallon drum, including drums.
Cresol	„	3	9	5	per imperial gallon, including drums.

"That, in regard to the supply of Sanitas Powder, sanction be given to the same being purchased departmentally if Messrs. Treacher and Company will not supply the same at Rs. 24-8-0 per cask of 200 lbs. net."

Resolved : "That, as applied for by the Commissioner in his letter No. 23750, dated 15th instant, to the Secretary, sanction be given to the acceptance of the tender of Messrs. Ruttonji Bapubhai & Co. for the supply of grain during 1895-96, at the following rates :—Ooreed at Rs. 35-12-0 per 1,000 lbs.,

No. 11454.

gram at Rs. 35-4-0 per 1,000 lbs., barley at Rs. 24-8-0 per 1,000 lbs., bran at Rs. 21 per 1,000 lbs., rice at Rs. 48 per 1,000 lbs., matra at Rs. 24 per 1,000 lbs., oil-cakes at Rs. 50 per 1,000 lbs., and salt at Rs. 44 per 1,000 lbs."

Read letter No. 23751, dated 15th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to request the sanction of the Standing Committee and the Corporation to the acceptance of the tender of Mr. Bhojabhai Allarakhia for the supply of hay, green grass and rice-straw for three years, commencing from 1st March 1895, at the following rates :—

TO BE DELIVERED IN BOMBAY.

Hay, at.....	Rs.	8	14	0	per 1,000 lbs.
Green grass, at.....	„	4	8	0	„
Rice-straw, at	„	6	8	0	„

TO BE DELIVERED AT THE BANDORA SLAUGHTER HOUSES.

Hay, at.....	Rs.	9	0	0	per 1,000 lbs.
Green grass, at	„	4	8	0	„
Rice-straw, at	„	7	0	0	„

Alternative tenders for one and three years, respectively, were invited, and tenders from Mr. Bhojabhai Allarakhia, Messrs. Ruttonjee Bapubhai & Co., and Messrs. Kooshaba Chapajee & Co., were received. The tender of Mr. Bhojabhai Allarakhia is the second lowest, and the lowest tender is from Messrs. Kooshaba Chapajee & Co. The reason why the tender of Mr. Bhojabhai Allarakhia is recommended is because he is our contractor for the current year, and has given satisfaction. The amount calculated at the tendered rates of Mr. Bhojabhai Allarakhia comes to Rs. 1,33,134-12-4 against Rs. 1,31,932-8-0, calculated at the tendered rates of Messrs. Kooshaba Chapajee & Co. Thus it will be seen that there is not much difference between the two figures.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 11455.

Resolved : " That the Commissioner be asked to state the terms on which Messrs. Bhojabhai Allarakhia will enter into a contract for the supply of hay, green grass for one year, the Commissioner making his recommendation for the acceptance of a tender on the basis of a contract for that term.

" That the Commissioner be also asked to state the rates for the supply of grass, &c., from the Deccan and Konkan only."

Resolved : "That memorandum No. 23988, dated this day, from the Commissioner to the Secretary, and accompaniments thereto, on the subject of the excess of Rs. 14,000 on the Water Works materials grant, be further circulated and brought on for consideration at a future meeting."

No. 11456.

Resolved : "That, as applied for by the Commissioner in his letter to the Secretary, No. 23073, dated 9th instant, sanction be given to the expenditure of Rs. 869-7-9 to meet the cost of making certain additions and alterations to the iron stalls of the new Mutton Market in the Arthur Crawford Market. The cost to be debited to the available balance of the grant for the new market, which the Corporation will be asked to renew at their meeting in February."

No. 11457.

Read letter No. 22860, dated 8th instant, from the Commissioner to the Secretary, as under :—

SIR,—In reference to the Corporation Resolution No. 8412, of the 10th November 1892, sanctioning the expenditure of Rs. 46,200 from Surplus Cash Balance, to meet the cost of reconstructing the portions of Gibbs Road, which had subsided during the rains of 1892, I have the honour to state that out of the sanctioned grant Rs. 20,624-8-2 and Rs. 16,621-12-5 were expended during 1892-93 and 1893-94, respectively, leaving a balance of Rs.8,953-11-5 at the end of the past year, which has been proposed to be renewed during the current year. From this sum expenditure to the extent of Rs. 295-6-5 has been incurred during the current year. The balance available, therefore, is Rs. 8,658-5-0. In the statement of lapsed grants which are required to be renewed during the current year, submitted by the Standing Committee to the Corporation for their sanction, amounting to Rs. 1,07,643-7-3, Rs. 8,953-11-5, mentioned above, have been included, as it was understood that the amount so renewed will be utilized for the works of diverting the 24" main in Gibbs Road, and of removing to the Chinchpoogly stores the temporary 18" and 16" diversion mains. As there is some account objection to this procedure, it not being clear that under section 132 this work is part of the "object" for which the grant was originally made,

I have to request that the amount of Rs. 8,658-5-0, available from the sanctioned grant, be deducted from Rs. 1,07,643-7-3, which are recommended to be renewed. I also request sanction of the Standing Committee and the Corporation to meet the expenditure of Rs. 9,125-5-0 (including Rs. 467 for Road Repairs charges) for the works of diverting the 24" main and of removing to the Chinchpoogly stores the temporary 18" and 16" diversion mains out of Surplus Cash Balance. The state of the Surplus Cash Balance is as follows :—

Surplus as shown in the Budget Estimate for 1895-96, inclusive of the amount reserved for the probable extra grants to the end of the current financial year			Rs. 2,19,075	0 0
Out of which expenditure (excluding temporary advances to be adjusted hereafter) has been sanctioned to the extent of.....	Rs. 1,54,435	10 9		
Expenditure recommended for sanction	,, 37,567	4 0		
			Rs. 1,92,002	14 9
Balance available.....			Rs. 27,072	1 3

It will be observed that, except for the item of Rs. 467, this arrangement entails no fresh allotment of funds, and is equivalent to a book transfer.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 11458. *Resolved*: "That letter No. 22860, dated 8th instant, from the Commissoner to the Secretary, on the subject of the grant for the reconstruction of part of Gibbs Road, be forwarded to the Corporation with the recommendation (1) that sanction be given to the payment, from Surplus Cash Balance, of Rs. 9,125-5-0, being the cost of diverting the 24" main in that road, and of removing to the water works stores the temporary 18" and 16" diversion mains ; and (2) to the amount of lapsed grants for 1892-93 and previous years recommended for renewal under the Standing Committee's Resolution No. 10700, dated 2nd instant, being reduced to Rs. 98,985-2-3."

Read letter No. 22861, dated 8th instant, from the Commissioner to the Secretary, as under :—

SIR,—Referring to the Standing Committee Resolution No. 13969, of 20th March 1894, I have the honour to report that the tender of Messrs. Littlewood, Pallonji & Co. at Rs. 9,204-11-9 included 10 per cent. contingencies, the tender being for Rs. 8,367-15-9, and the contingencies being Rs. 836-12-0. It, however, appears that the approval of the Standing Committee was requested to the acceptance of the tender at rates aggregating Rs. 9,204-11-9 *plus* Rs. 920, amount of 10 per cent. contingencies, total Rs. 10,124-11-9, debiting the cost to the allotment of Rs. 30,000 for laying water mains in the city. The sanction of the Standing Committee is therefore requested to amend their resolution accordingly, making the total amount Rs. 9,204-11-9, and it should be debited to three separate grants, viz. (1) the grant of Rs. 30,000 above referred to ; (2) the renewed grant for posts, hydrants, buckets for extinguishing fires at the Arthur Crawford, Fort and other Markets, and (3) the grant for diversion of the 24" main at Gibbs Road. The total of Rs. 9,204-11-9 for the works will be apportioned as follows :—

	Amount.			Contingencies.			Total.		
	Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.
To grant for laying main in the Crawford Market compound, actual cost	276	2	3	27	9	9	303	12	0
To grant for diversion of 24" main, Gibbs Road	3,278	14	4	327	13	6	3,606	11	6
To allotment of Rs. 30,000 for laying mains in different parts of the City	4,812	15	6	481	4	9	5,294	4	3
Total...	8,367	15	9	836	12	0	9,204	11	9

I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : " That, with reference to the Committee's Resolution No. 13969, dated 20th March 1894, sanctioning the acceptance of Messrs. Littlewood and Pallonji's tender for laying cast iron pipes in Bapty Road and other places, at a cost of Rs. 9,204-11-9 *plus* Rs. 920, 10 per cent. contingencies to the debit of the allotment of Rs. 30,000 for laying

No. 11459.

water mains in the City, sanction be now given to the acceptance of such tender at schedule rates aggregating Rs. 8,367-15-9 *plus* Rs. 836-12-0 for contingencies, total Rs. 9,204-11-9, the amount to be apportioned as follows":—

	Amount.			Contingencies.			Total.		
	Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.
"To grant for laying mains in the Arthur Crawford Market Compound actual cost.	276	2	3	27	9	9	303	12	0
To grant for diversion of 24" main, Gibbs Road	3,278	14	0	327	13	6	3,606	11	6
To allotment of Rs. 30,000 for laying mains in different parts of the City ...	4,812	15	6	481	4	9	5,294	4	3
Total...	8,367	15	9	836	12	0	9,204	11	9"

Read letter No. 23077, dated 9th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to request that a further advance of 2 lakhs to the 15 lakh loan may be made in addition to the 7½ lakhs already advanced thereto. The following table shows concisely the expenditure which has been incurred on the acquisition of land and frontages and the construction of roads in Agripada and elsewhere :—

Survey, &c	Rs.	4,452	6	7
Land and frontages acquird.....	„	20,77,261	6	5
Construction of roads	„	2,20,677	0	0
	Rs.	23,02,390	13	0
Deduct cost of drains in certain road	„	54,120	1	2
		22,48,270	12	0

Practically the whole sum of 15 lakhs *plus* 7½ has been spent, and the following charges are still pending :—A ward in case of land near Byculla Station Rs. 30,000, land acquired from Hindustan Mill Rs. 2,070, Souter Road (construction) Rs. 43,868, Morland Road Rs. 24,689, Club Street Rs. 35,734, Gilder Street Rs. 31,150, land at Dadar 7000—Total Rs. 1,72,511.

An additional advance is therefore urgent. We have not as yet succeeded in selling more than one plot of ground on Connaught Road (Rs. 9,192-0-2), and have not attempted yet to sell front-

ages in Agripada or on the Tansa Road. Proposals for sale in the latter two localities will shortly be submitted, and I shall ask sanction in all three, if sale by public auction is abortive, to dispose of frontages by private tender. At the same time it is obviously undesirable to forçe sales at poverty rates, and we may possibly be obliged to wait for some months yet before our exchequer is reimbursed and these advances repaid by the sale of land. This is one of the natural consequenses of a sluggish land market, but we are in a position to hold out for our own prices, and can afford to wait. I shall be glad if this proposal can be brought before the Corporation in February, as we are in need of money to pay contractors.—I have, &c.,

H. A. ACWORTH, Municipal Commissioner.

No. 11460.

Resolved: "That letter No. 23077, dated 9th instant, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to a further advance of Rs. 2 lakhs, from Surplus Loan and other available balances, to meet the cost of the acquisition of land and frontages and the construction of roads in Agripada and elsewhere.

"The amount to be adjusted hereafter by debit to the sale-proceeds of frontages."

Read letter No. 22943, dated 9th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to report that the New Colaba Market will be opened from the 1st May 1895, and the following establishment will be necessary to manage it for 10 months up to the end of Februray 1896 :—

1	Sub-Inspector at	Rs.	75	per month	.....	Rs.	75	0 0
1	Naique	„	12	„	.....	„	12	0 0
4	Peons	„	10	„	.....	„	40	0 0
1	Lamp lighter	„	11	„	.....	„	11	0 0
5	Labourers	„	11	„	.....	„	55	0 0
							193	0 0
								10
						Rs.	1,930	0 0
	Clothing for one naique and four peons at Rs. 37-8 and Rs. 19 each, respectively.....					Rs.	113	8 0
	Contingencies.....					„	100	0 0
						Total Rs.	2,143	8 0

As there is no provision made in the Budget for 1895-96 for this expenditure, I have to request the sanction of the Standing Committee and the Corporation to meet it out of Surplus Cash Balance.

The state of the Surplus Cash Balance is as follows :—

Surplus as shown in the Budget Estimate for 1895-96, inclusive of the amount reserved for the probable extra grants to the end of the current financial year	Rs.	2,19,075	0	0
Out of which expenditure, (excluding temporary advances to be adjusted hereafter,) has been sanctioned to the extent of	„	1,54,435	10	9
Expenditure recommended for sanction.	„	46,692	9	0
	Rs.	2,01,128	3	9
Balance available	„	17,946	12	3

I have, &c.,
H. A. ACWORTH.

No. 11461. *Resolved* : "That, with reference to letter from the Commissioner to the Secretary, No. 22943, dated 9th instant, the Corporation be recommended to include in the Budget Estimates for 1895-96 provision for the expenditure of Rs. 2,143-8-0, to meet the cost of the following staff for New Colaba Market for 10 months from 1st May 1895 up to the end of February 1896 :—

1	Sub-Inspector	at Rs.	75	per month	.....	Rs.	75	0	0
1	Naique	„ „	12	„ „	.....	„	12	0	0
4	Peons	„ „	10	„ „	.....	„	40	0	0
1	Lamp-lighter	„ „	11	„ „	.....	„	11	0	0
5	Labourers	„ „	11	„ „	.....	„	55	0	0
						Rs.	193	0	0
									10
							1,930	0	0
Clothing for one naique and four peons at Rs. 37-8-0 and 19 each, respectively						Rs.	113	8	0
Contingencies						„	100	0	0
							2,143	8	0

"That the Chairman be asked to give notice at the meeting of the Corporation called for to-morrow that he will move that the sum of Rs. 2,143-8-0, be added to the Budget grant for Markets accordingly."

Resolved: "That the following be circulated and brought on for consideration at a future meeting :—Letter No. 23061, dated 9th instant, from the Commissioner to the Secretary, on the subject of the Mahim Garden."

No. 11462.

Resolved: "That the following be *recorded*:—Letter No. 22851, dated 9th instant, from the Commissioner to the Secretary, reporting that Hadji Jacob Jan Mahomed having objected to pay the usual deposit to enable a contract to be entered into, and having declined to allow the Engineering Department to measure the heaps of rubble as they stood, the offer of Mr. Harkisondas Keshavdas has been accepted, as he has agreed to give a sufficient quantity of rubble to yield a thousand brass of metal, and to receive payment at Re. 1-12-0 per brass of metal. Stating that this offer is more advantageous than that of Hadji Jacob Jan Mahomed."

No. 11463.

In accordance with notice, it was proposed by A. G. Viegas, Esq.—

"That the Commissioner be asked in future cases to make a stipulation in drainage contracts, that no part of the work shall be kept open longer than certain periods."

The Chairman ruled that the motion in its present form was not in order, as it is not competent for the Standing Committee to bind the Commissioner in the way proposed.

Considered the following :—

STATEMENT showing set-backs of properties sanctioned by the Municipal Commissioner, under section 298 of the Municipal Act, during the month of December 1894.

Serial No.	Ward.	Property No.	Locality.	Name of the person called upon to set-back the property.	Number of square yards of land.	REMARKS.
1	E	.....	Parel Road.....	Mr. Ahmed Ismail...	4·81	
2	E	.....	Mount, and Matharpakadi Road.	„ Sorabji H. Batliwalla.	33·26	
3	C	241—243	Northbrook Street.	„ Jose Manuel De Souza.	4·94	
4	C	323—325	Girgam Road, near Chira Bazaar.	„ Pestonji Edulji Mehta.	26·80	
5	G	.....	Lady Jamsetji Road.	J. De Olivera	2·11	

No. 19878 OF 1894-95.

9th January 1895.

Submitted to the Municipal Commissioner for information, with reference to his No. 10751, dated 6th August 1894.

M. C. MURZBAN, Executive Engineer.

No. 23281 OF 11-1-95.

Forwarded to the Standing Committee for information.

H. A. ACWORTH, Commissioner.

Resolved : "That memorandum No. 23281, dated 11th instant, from the Commissioner to the Secretary, forwarding statement showing set-back of properties sanctioned during the month of December last, be *recorded*."

No. 11465.

Considered petition dated 29th November last, from Mr. Cumber Ali Muzaffer Ali, stating that last August he was served with a notice by the Executive Engineer to remove the front wall of his property in 2nd Cooper

Street, in pursuance of which notice he removed the ruinous portion of the wall and commenced to rebuild the same, which he has now been prevented from doing. Adding that up to the present, hardly one or two houses in his neighbourhood have been set-back, and that, therefore, by enforcing the set-back in his case the street would not be improved in any way. Requesting, therefore, that the set-back ground be purchased from him by the Municipality and leased to him on the usual terms.

Considered also letter No. 23253, dated 10th instant, from the Commissioner to the Secretary, stating that the houses on the east side of the petitioner's property have already been set-back to the regular line as shown on the tracing forwarded, and it would, therefore, be improper to grant the request made by the petitioner.

Resolved : "That, in reply to his letter to the Chairman, dated 29th November last, Mr. Cumber Ali Muzaffer Ali be informed that the Standing Committee decline to sanction any agreement of the nature suggested therein, and that the notices served on him by the Municipality, for the removal of the front and side walls of the building in question, must be complied with."

No. 11466.

Resolved : "That the following be *recorded*:—Memorandum No. 22931, dated 9th instant, from the Commissioner, reporting, with reference to the Committee's resolution No. 4484, dated 3rd October 1888, the following transfers to the General Fund Pass book on the 13th ultimo :—

No. 11467.

On 13th December 1894 : (*a*) From the 27 Lakhs Loan for Drainage and Water Works Deposit Account, Rs. 1,161-0-0 ; (*b*) from the Miscellaneous Works Loan of 1888-89 Deposit Account, Rs. 6,232-2-0 ; (*c*) from the 7 Lakhs Sanitary Works Loan Deposit Account No. 2, Rs. 2,621-11-0 ; (*d*) from the Agripada House Sullage Water Connections Loan Deposit Account, Rs. 649-2-0 ; (*e*) from the 23½ Lakhs Loan for Drainage and other Works Deposit Account, Rs. 5,599-4-1 ; (*f*) from the Surplus Cash Deposit Account, Rs. 41,822-9-0 ; (*g*) from the Municipal Loans Sinking Fund Deposit Account, Rs. 16,500-0-0 ; (*h*) from the Worn-out Mains Renewal Fund Deposit Account, Rs. 4,575-10-0 ; (*i*) from the net Premia, &c.,

on different Municipal Loans Deposit Account, Rs. 508-6-5. Total Rs. 79,669-12-6.*

No. 11468

Resolved: "That the following be *recorded*:—Letter to the Secretary, No. 23407, dated 11th instant, from the Commissioner, reporting that he has authorized the Executive Engineer to purchase from Messrs. Killick, Nixon & Co. 50 tons Singareni coal (Hyderabad, Deccan), at Rs. 15 per ton, for the Municipal Workshops and for steam rollers. The cost to be met from the respective grants for the purchase of coal."

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* The Acting Chief Accountant reports to the Commissioner that the balances remaining to the credit of the above deposit accounts, after effecting the transfer now reported, stand as under :—

(*a*) In 5 per cent. Municipal Debentures for	Rs.	46,500	0	0	= Rs.	46,500	0	0
(*b*) In 5 per cent. Municipal Debentures for ....Rs. 2,50,000	— Rs.	2,50,000	0	0				
In 3½ per cent. Government Paper for ....Rs. 1,00,000	= Rs.	99,625	0	0				
					Rs.	3,49,625		0
(*c*) In 5 per cent. Municipal Debentures for	Rs.	1,05,000	0	0	= Rs.	1,05,000	0	0
(*d*) In 5 per cent. Municipal Debentures for	Rs.	26,000	0	0	= Rs.	26,000	0	0
(*e*) In 3½ per cent. Government Paper for	Rs.	1,13,000	0	0	= Rs.	1,17,237	8	0
(*f*) In 5 per cent. Municipal Debentures for ....Rs. 18,15,500	= Rs.	18,15,500	0	0				
In 4 per cent. Do. Rs. 84,000	= Rs.	84,000	0	0				
In 3½ per cent. Government Paper for ....Rs. 2,89,500	= Rs.	3,00,607	13	0				
					Rs.	22,00,107	13	0
(*g*) In 5 per cent. Municipal Debentures for ....Rs. 8,86,000	= Rs.	8,86,000	0	0				
In 4 per cent. Do. Rs. 83,500	= Rs.	83,500	0	0				
	Rs.	9,69,500	0	0				
In Cash	Rs.	711	8	0				
					Rs.	9,70,211		0
(*h*) In 5 per cent. Municipal Debentures for ....Rs. 2,02,500	= Rs.	2,02,500	0	0				
In 4 per cent. Do. Rs. 7,000	= Rs.	7,000	0	0				
	Rs.	2,09,500	0	0				
In Cash	Rs.	400	8	8				
					Rs.	2,09,900	8	8
(*i*) In 5 per cent. Municipal Debentures for .... Rs. 1,67,500	= Rs.	1,68,000	0	0				
In 4 per cent. Do. Rs. 500	= Rs.	500	0	0				
	Rs.	1,68,500	0	0				
Cash	Rs.	471	7	4				
					Rs.	1,68,971	7	4

Read letter No. 23603, dated 12th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to report that permanent quarters are required for the Inspector on the Mandola Division of the Tansa Works (Tansa to Agra Road, length 19 miles). The Water Engineer states that the village of Khaling is the best place for such quarters, it being the healthiest point that can be chosen. It is 15½ miles from Tansa.

While the Tansa works were in progress, there were temporary cutcha quarters provided at Khaling. They are now in a dilapidated condition, and new quarters are therefore required to be provided, which the Water Engineer proposes to construct at an estimated cost of Rs. 3,932, to be paid out of savings on additional works debitable to Tansa Loan, as follows :—

	Name of the work.	Grant sanctioned.	Amount expended.	Savings.
		Rs. a. p.	Rs. a. p.	Rs. a. p.
1	Excavating and widening the old Khosta Nulla	3 25 0 0	320 8 6	4 7 6
2	Raising manholes in No. 3 Division	61 0 0	38 8 1	22 7 11
3	Earth-filling and loose stone pitching, No. 4 Division	305 0 0	224 0 2	80 15 10
4	Repaving 2' drain on siphon, No. 2 Division	260 0 0	204 9 3	55 6 9
5	Dry rubble stone pitching on siphon No. 5	4,600 0 0	2,447 7 8	2,152 8 4
6	Filling up to pipe embankment level a strip of land taken up for pipe line at Kurla	2,640 0 0	2,131 7 8	508 8 4
7	Masonry required at Ghat Koper clearing sluice	2,500 0 0	691 13 3	1,808 2 9
	Total savings...	.....	.....	4,632 9 5

The Water Engineer's proposal is supported by the Executive Engineer, and I request the sanction of the Standing Committee and the Corporation to its acceptance.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : " That letter No. 23603, dated 12th instant, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the construction of permanent quarters in the villlage of Khaling for the Inspector of Mandola Division of the Tansa

No. 11469.

Water Works, at a cost of Rs. 3,932, debitable to savings on the grant for additional works, Tansa Water works."

Resolved : "That the following be *recorded*, and the petitioner informed accordingly :—Letter to the Secretary No. 23079, dated 11th instant, from the Commissioner, reporting with reference to petition from Mr. Edalji Nasarvanji Setna, that orders have been given for laying a 3" main, in Parsi Panchayet Lane at a cost of Rs. 328." No. 11470.

Resolved : "That the following be forwarded to the Commissioner for disposal, and that the applicant be informed accordingly :—Letter to the Chairman, without date, from Sadashiv Parashram Mistry, complaining of his dismissal from the Municipal service, and requesting that an enquiry be made and that he may be reinstated in any other departments of the Municipality as a Mistry." No. 11471.

Resolved : "That the following be laid on the table :— Letter dated 14th instant, from Messrs. Ardaseer Framjee Moos and Nanabhai R. Ranina, stating that they have audited the weekly statement of receipts and disbursements at the end of each week, for the month of December last, and compared them with the general and subsidiary ledgers and journals and found them correct. Forwarding the usual summary and statement of their scrutiny of accounts." No. 11472.

The following return was read and *recorded* :—

Return of fires at Parel Road (New Great Eastern Mill)., Parel Road, Mori Road, Clive 2nd Cross-Lane, do. do., Lady Jamsetji Road, Narayen Dhuru Street, Wari Bunder Road, Khetwadi, DeLima Street, Mazagon, and Girgam Back Road, forwarded with the Commissioner's Memorandum No. 22664, dated 7th instant, 1895*.

The following statement† was laid on the table :—

The statement of height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 13th January 1895.

* *See* Appendix C. † *See* Appendix B.

Resolved : "That, with reference to their Resolution No. 11200, dated 10th instant, the Corporation be recommended to sanction the grant of Rs. 760, from Surplus Cash Balance, to defray the cost of illuminating the address to the Right Hon'ble Lord Sandhurst, Governor of Bombay designate, of silver casket to contain the same, and of printing copies of the address for circulation to councillors.

No. 11475.

BOMBAY, *23rd January* 1895.

AT the meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KHRISHNA BHATAWADEKAR, ESQ., L.M. ; COWASJEE HORMUSJEE, ESQ., G G.M.C. ; THE HON'BLE MR. FAZULBHOY VISRAM ; HURKISONDAS NURROTUMDAS, ESQ. ; THE HON'BLE MR. JAVERILAL UMIASHANKER YAJNIK ; KAIKHOSRO N. KABRAJEE, ESQ. ; K. M. SHROFF, ESQ. ; S. REBSCH, ESQ., ASSO. M.I.C.E. ; ACCACIO G. VIEGAS, ESQ., L.M. & S. ; R. H. VINCENT, ESQ., C.I.E. ; CAPTAIN W. P. WALSHE ;

H. A. ACWORTH, ESQ., I.C.S., Commissioner ; and the SECRETARY.

The signing of the minutes of the meeting held on the 16th instant was postponed.

The seal of the Corporation was affixed to deed of agreement with Mr. Jamshedji Manecksha Doctor, head animal keeper, Victoria Gardens, whereby he agrees to proceed to Calcutta to receive instruction in the Zoological Gardens there in respect of the zoological collection, Victoria Gardens, and to remain in the service of the Corporation for a period of three years after the completion of such instruction.

Resolved : "That, as applied for by the Commissioner in his memorandum No. 24409, dated 10th instant, sanction be given, under section 351 (2) of the Municipal Act, to the removal of the following structure built without permission :—

No. 11734.

Name of owner.	Where.
Mr. Heerjee Assoo.....	Shed at Matunga, near the G. I. P. Railway station."

Resolved : "That sanction be given to the cutting off of water connections, as per list accompanying the Commissioner's memorandum No. 24646, dated this day."

No. 11735.

Resolved: "That letter to the Secretary, No. 24522, dated 21st instant, from the Commissioner, be forwarded to the Corporation, with the recommendation that sanction be given to the acceptance of the tender of Messrs. Alladin Mitha and Damodar Raghunath, for the supply of sand-stone quarried without the limits of the Island of Bombay and other articles at the rates as follows, for a period of three years, from 1st March 1895 :—

No. 11736.

"Sand-stone at Rs. 8-12-4 per 100 cubic feet; sea sand at Rs. 7-10-0 ditto; shingle at Rs. 12 ditto; shells at Rs. 15 ditto; Thana sand at Rs. 9-8-0 ditto; murum at Rs. 3 ditto; yellow earth at Rs. 3-12-0 ditto; red earth at Rs. 7 ditto."

Resolved: "That, as applied for by the Commissioner in his letter to the Secretary, No. 24388, dated 18th instant, sanction be given to the variation of the contract with Messrs. Hasan Ali Mulla Hakimji and Mahomed Ali Mulla Hakimji, for the supply of 500 kerosine-oil lanterns, whereby the contract period may be extended from 20th April to 29th November 1894."

No. 11737.

Considered letter No. 24524, dated 21st instant, from the Commissioner to the Secretary, as under :—

SIR,—I have to the honour to request the sanction of the Standing Committee and the Corporation to the laying of a 6" pipe drain from the gully between Shri Murlidhar's Temple and the house of Mr. Mulshankar Mayashankar at Mumbadevi Tank Road and connecting the same with the 9" pipe drain in the locality at a cost of Rs. 132. The gully has at present no outlet, and consequently contains a considerable quantity of sewage and decaying matter. The owner of the gully has deposited sufficient money with the Drainage Engineer to have it paved with Indian Patent Stone. As the house is in the 1st portion of the Drainage scheme, it is for the Municipality to lay the pipe drain to connect it.

The cost will be met from the grant for house connections.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved: "That, as applied for by the Commissioner in his Letter to the Secretary, No. 24524, dated 21st instant, the Corporation be recommended to sanction (1) the laying of a 6" pipe

No. 11738.

drain from the gully between Shri Murlidhar's Temple and the house of Mr. Mulshankar Mayashankar, at Mumbadevi Tank Road, and (2) the connecting of the drain with the 9" pipe drain therein, at a cost of Rs. 132, to be debited to the grant for the First Drainage Section."

Resolved: "That the following be *recorded*:—Letter to the Secretary No. 24488, dated 19th instant, from the Commissioner, reporting under section 69 (*d*) of the Municipal Act, that he has authorized the Special Drainage Engineer, to purchase from Messrs. Richardson and Cruddas, 23 cast iron spigot and socket pipes, weighing 100 cwt. and 7 lbs., at Rs. 5-4-0 per cwt., at a total cost of Rs. 525-5-3, to be met from the savings of Rs. 530-4-0, being the cost of 101 yards of 6" sealed sewage main for Ejector Station No. 5, saved on account of the removal of the site for the station further northwards in deference to the wishes of the Military authorities."

No. 11739.

Considered letter No. 4266, dated 19th instant, to the Commissioner, as under :—

SIR,—I have the honour to forward for transmission to the Standing Committee a return for the quarter ending 29th December 1894, as compared with the corresponding quarter for the previous year, as required by the then Town Council's Resolution, No. 465, of 1st June 1887, with a list of additional grants sanctioned by the Corporation during the quarter.

2. The unappropriated Surplus Cash Balance, as pointed out in my Annual Report for the past year, amounts to Rs. 1,80,786.

3. Surplus revenue of about Rs. 46,000 and savings in expenditure, amounting to Rs. 50,000 for the current year, were anticipated while submitting to the Corporation the budget estimates for 1895-96.

4. Out of the surplus, &c., referred to in paras 2 and 3 the Standing Committee have reserved Rs. 2,19,075 for additional grants sanctioned and to be sanctioned during 1894-95.

5. As per the revised estimates for 1894-95 circulated to the members of the Corporation a further surplus ¾ of a lakh has been estimated to accrue on account of surplus revenue.—I have, &c.,

W. PEARSON, Acting Chief Accountant.

ACCOUNT OF THE BOMBAY MUNICIPALITY FOR contrasted with that for the

Receipts.	Budget Estimate. Rs. a. p.	Quarter ending 29th Dec. 1893. Rs. a. p.	Quarter ending 29th Dec. 1894. Rs. a. p.
Opening Balance on 1st April 1894	19,50,000 0 0	2,54,835 9 5	1,71,209 1 2
General Tax	18,26,600 0 0	6,26,169 13 6	7,76,738 3 6
Water Tax (including other Miscellaneous W. W. Revenue)	13,00,000 0 0	3,02,134 15 8	3,33,059 9 8
Wheel Tax and Tolls	3,45,850 0 0	45,830 10 7	43,867 8 4
Halalcore Tax	6,00,000 0 0	1,90,146 0 5	2,14,692 14 10
Town Duties	7,74,000 0 0	2,79,396 15 10	3,41,259 3 9
Licenses	80,900 0 0	16,740 8 0	12,803 8 0
Liquor Licenses, Instalment paid by Government in lieu of, under B. Act V. of 1878	1,43,750 0 0	.....	.....
Tobacco Duty (under Act IV. of 1857)	1,87,000 0 0	39,855 0 0	45,755 0 0
Market Receipts	3,65,600 0 0	92,843 1 4	92,343 12 10
Miscellaneous Fees	50,000 0 0	12,218 13 5	11,044 10 1
,, Fines and Penalties	8,000 0 0	1,699 0 0	3,017 10 9
,, Receipts	1,25,000 0 0	29,218 11 0	31,152 0 10
,, Savings	3,000 0 0	.....	.....
Sale proceeds of unserviceable stores sold by public auction	.....	.....	2,410 1 5
Public Gardens	7,000 0 0	1,502 13 0	1,563 10 4
Contribution from Municipal Servants towards Pension, &c., Fund	15,800 0 0	4,035 13 8	4,014 2 10
Tramway Rent	38,000 0 0	18,980 7 11	19,445 7 4
Premia on the 4 per cent. Loan for repayment of the Government Consolidated Loan	.....	*686 2 0	.....
Interest and Profit on Investments of Surplus Loan and other Balances	2,04,600 0	1,06,702 5 4	1,05,195 13 7
Premium on the 2nd Instalment of 2 Lakhs of the 4½ Lakhs Loan for Fire Brigade Quarters and Stations	.....	3,242 0 0	.....
	60,74,500 0 0	17,70,230 15 8	20,38,420 6 1
Debt	.....	2,00,000 0 0	.....
Workshop Recoveries	.....	14,444 12 4	23,721 2 5
Advances	.....	84,434 8 2	1,41,579 10 9
Bank of Bombay Loan and other Deposit Accounts	.....	11,08,155 1 4	4,00,924 10 0
Deposits	.....	1,12,472 15 8	1,00,244 3 1
Rupees	60,74,500 0 0	32,89,788 5 2	27,04,890 0 4
Total Rupees	80,24,500 0 0	35,44,623 14 7	28,76,799 1 6

* Details deducted.

THE QUARTER ENDING 29TH DECEMBER 1894.

Quarter ending 29th December 1894.

	Budget Estimate.	Quarter ending 29th December 1893.	Quarter ending 29th December 1894.
Disbursements.	Rs. a. p.	Rs. a. p.	Rs. a. p.
General Superintendence	2,04,192 0 0	51,987 10 2	54,794 8 11
Assessment and Collection Department	2,55,322 0 0	58,144 5 3	57,805 4 2
Fire Brigade	1,15,435 0 0	80,447 1 0	19,862 12 7
Public Gardens	57,994 0 0	12,676 3 9	13,061 11 8
Public Works (Engineer's Dept.) — General Supervision Establishment	40,326 0 0	9,173 0 2	9,788 4 0
Drainage	2,03,147 0 0	45,401 3 11	59,694 3 0
Water Works	2,28,968 0 0	52,086 1 3	63,139 1 11
Streets and Buildings Inspection and Supervision Establishment	86,677 0 0	20,272 3 10	20,827 15 5
Public Lighting	3,22,734 0 0	1,04,123 8 3	74,125 1 6
Road Watering	82,400 0 0	9,654 0 11	9,847 4 10
Road Repairs and Maintenance	3,50,910 0 0	99,922 10 9	88,507 4 10
Street Improvements	1,02,500 0 0	27,404 5 4	54,370 9 1
Cleaning, Lighting and Repairing Port Trust Wharves	38,842 0 0	.....	37,642 0 0
Health Department	13,31,159 0 0	2,99,920 8 4	3,20,069 11 0
Police Charges	4,00,000 0 0	90,836 4 0	93,708 15 0
Education	89,435 0 0	21,376 3 6	20,852 1 1
Hospitals	57,000 0 0	10,039 14 0	15,610 11 6
Miscellaneous	67,326 0 0	13,942 13 11	16,924 13 1
New Works	96,293 0 0	23,640 10 2	28,576 9 8
Debt (including Sinking Fund deposited with the Bank of Bombay)	21,26,551 0 0	4,89,533 7 11	5,05,029 4 6
	62,57,211 0 0	14,70,582 4 5	15,63,538 3 9
Loan Works Accounts	.....	3,23,504 6 7	1,47,884 1 5
Workshops	.....	15,562 9 1	31,289 11 11
Advances	.....	1,59,516 3 1	1,27,616 0 0
Bank of Bombay Loan and other Deposit Accounts	.....	11,83,998 6 6	2,66,624 10 1
Deposits	.....	78,826 10 4	88,153 9 8
Rupees ...	62,57,211 0 0	32,31,990 8 0	22,25,106 4 10
Closing Balance	.....	3,12,633 6 7	6,51,692 12 8
Estimated Balance on 31st March 1895	17,67,289 0 0	.....	.....
Total Rupees ...	80,24,500 0 0	35,44,623 14 7	28,76,799 1 6

List of Additional Grants sanctioned by the Corporation during the Quarter ending 31st December 1894.

Resolution No.	Month and Date.	Particulars.	Amount.
	1894.		Rs. a. p.
7563	October 11 ...	Grant of Rs. 7,462-5-10 from Surplus Cash Balance to meet the salary of Surgeon Lieut.-Col. T. S. Weir, while acting as Commissioner.....	7,462 5 10
7557	„ 11 ...	Grant of Rs. 1,020 from Surplus Cash Balance to meet the excess (consequent on the fall in exchange on London and the levy of Import Duty) on the grant of Rs. 20,000 for machinery plant for lighting with electricity the Municipal Offices and the Arthur Crawford Markets, &c.....	1,020 0 0
7558	„ 11 ...	Grant of Rs. 1,200 from Surplus Cash Balance for covering the clear water channel of John Hay Grant Reservoir	1,200 0 0
7560	„ 11 ...	Grant of Rs. 959 from Surplus Cash Balance to meet the cost of shifting the sewerage hopper from Thomas Street to the Colaba Night Soil Depôt	959 0 0
7561	„ 11 ...	Grant of Rs. 2,457 form the Balance of Rs. 28,166-2-7 standing to the Credit of the Garden Improvement Fund to meet the cost (1) of deputing Mr. Jamshedji M. Doctor, or some other suitable person to Calcutta for instruction under Mr. Sanyal, for a period not exceeding 12 months on a salary including all allowances of Rs. 150 per mensem Rs. (1,800); (2) Rs. 112 for Railway fare to and from Calcutta and expenses on those journeys Rs. 45; and Rs. 500 honorarium payable to Mr. Sanyal.	2,457 0
7563	„ 11 ...	Grant of Rs. 4,452-0-7 from Surplus Cash Balance to meet excess on the Budget grant of 1893 94 for Materials, Water Works	4,452 0 7
8526	November 8 ...	Grant of Rs. 133-8-0 from Surplus Cash Balance to meet the extra cost of purchasing from Mr. Narayen Kashinath and others 31-73 square yards or thereabout of land at Rs. 10 per square yard situate at Mughbhat Road, as site for dust bin cart.....	133 8 0
9888	December 6 ...	Grant of Rs. 7,011 from Surplus Cash Balance to meet the cost of providing side entrances to the Frere Road Sewer, &c.	7,011 0 0
		Carried over Rupees...	24,694 14 5

Resolution No.	Month and Date.	Particulars.	Amount.
			Rs. a. p.
	1894.	Brought forward Rupees...	24,694 14 5
9889	December 6 ...	Grant of Rs. 360 from Surplus Cash Balance to meet the cost of Compassionate allowance payable to Soonderbai, daughter of Ramchandra Pandoorung (who was a receiver in the Assessment and Collection Department) and the widow of his son Pandoorung Ramchundra	360 0 0
9890	,, 6 ...	Grant of Rs. 769 from Surplus Cash Balance to meet the cost of laying a pipe drain for the carriage of waste water from the chawls of the biggaries, Health Department, Frere Road to the sewer thereat	769 0 0
9892	,, 6 ...	Additional grant of Rs. 192 from Surplus Cash Balance to meet the cost of certain additions to the Police Quarters at Mahim.....	192 0 0
9893	,, 6 ...	Additional grant of Rs. 8,264 from Surplus Cash Balance for the purchase of coal for Love Grove Pumping Station to the end of the current financial year	8,264 0 0
		Total Rupees...	34,279 14 5

No. 24507 OF 1894-95.

BOMBAY, 21*st January*, 1895.

Forwarded to the Standing Committee.

H. A. ACWORTH, Commissioner.

No. 11740. *Resolved*: "That memorandum No. 24507, dated 21st instant, from the Commissioner and returns forwarded therewith, be *recorded*."

No. 11741. *Resolved*: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 24492, dated 19th instant, sanction be given under sections 211 and 517 (1) (*j*) of the Municipal Act, to a suit being filed in the Court of Small Causes as suggested by the Municipal Solicitors in their letter dated 7th instant, to the Assessor and Collector of Municipal Rates and Taxes, against Bai Nandubai, widow of Khatri Daya Chaturbhuj, for the recovery of property taxes and notice fee, amounting to Rs. 107-7-6 due in respect of house, C. Ward, No. 5858, Kika Street."

Resolved : "That, as applied for by the Commissioner, in his letter to the Secretary, No. 24389, dated 18th instant, sanction be given, under sections 211 and 517 (1) (*j*) of the Municipal Act, to a suit being filed in the Court of Small Causes, against Messrs. Fakrudin Shaik Abdulla and Dadu Mia Shaik Abdulla, for the recovery of Rs. 64-2-11, for property taxes and notice fees in respect of property, B Ward, No. 3673, Dongri Street."

No. 11742.

Resolved : "That, as applied for by the Commissioner, in his Memorandum No. 24201, dated 17th instant, sanction be given to the transfer of Rs. 85, from savings in the Drainage Department, section 1 A establishment, miscellaneous drainage, to section V, A miscellaneous drainage, water-supply to Inspectors' chaukies, &c., water, *plus* rent of meters, to meet excess on the latter head."

No. 11743.

Resolved : "That, as applied for by the Commissioner, in his Memorandum No. 24301, dated 18th instant, sanction be given to the transfer of Rs. 44, from savings in the grant for Victoria Gardens, section I Establishment, to Northbrook Garden, section I Establishment, to meet the wages of two ramosis transferred to the latter garden."

No. 11744.

Resolved : "That, as applied for by the Commissioner, in his Memorandum No. 24302, dated 18th instant, sanction be given to the transfer of Rs. 150, from savings in the grant for Drainage Department, section 1 A establishment, miscellaneous drainage, to section IV, A miscellaneous drainage, printing, to meet excess on the latter head due to insufficient budget provision."

No. 11745.

Resolved : "That with reference to letters to the Secretary (1) No. 16775, dated October 1894, from the Acting Commissioner and (2) No. 23958 dated 16th instant, from the Commissioner, sanction be now given, under sections 211 and 517 (1) (*j*) of the Municipal Act, to a suit being filed in the Court of Small Causes against Messrs. Virchand Dipchand, Tilakchand Manakchand, Motichand Harawchand, and Dayachand Mulakchand, trustees of properties, C. Ward, Nos. 5565 (3) and 5574 to 5578 (1), caste dining places for Hindoos, Pinjrapole Street, for the recovery of Halalkhor and Water Taxes, notice fees, &c., amounting to Rs. 376-1-0."

No. 11746.

Resolved : "That in reply to his letter to the Chairman, dated 6th November 1894, on the subject of the erection of latrines in front of property at Parel Back Road, Mr. Framji Bomanji Jeejeebhoy be informed that the proposed site of the latrines complained of is to the north of the Bai Sakurbai Hospital, while the prevailing wind is from the South and South West and that apart from this, the Commissioner does not think any nuisance will be created by these latrines as they will be built on the automatic flushing system."

No. 11747.

It was agreed that the consideration of the following be postponed until next week and that in the meantime the Commissioner be requested to submit estimates of the proposed building. Letter No. 23959, dated 16th instant, from the Commissioner to the Secretary, on the subject of the construction of a kerosine oil godown at the Stores Depot, Bellasis Road.

Resolved: "That on the recommendation of the Municipal Secretary, sanction be given to the confirmation of the appointment in his office of 2 peons, Vishnu Deoji, on a commencing salary of Rs. 9 per month, and Sheik Kassam Valad Sheik Ismail, ditto Rs. 8 per mensem."

No. 11749.

Resolved : "That the following be *recorded* :—Letter No. 23857, dated 15th instant, to the Secretary from the Commissioner, reporting, under section 92 (*a*) of the Municipal Act, that he has sold the following rights (1) of cutting grass from the Municipal land, near the Condensing Reservoir at the Pumping Station, Love Grove, and from the compound of Mr. Varjiwandas Madhowdhas' bungalow, rented by the Municipality, to Lukha Dewji, for Rs. 180, *plus* general tax Rs. 15-4-10, (area about 34153 square yards) ; (2) of cutting grass from the banks of the storm-water reservoir at Mahaluxmi (except the vellard bank) *i.e.*, from the municipal ground, from Clerk Road to Love Grove Pumping Station, including a side of the main drain, to Luxoomon Raghoo for Rs. 1,550, *plus* the general tax of Rs. 131-12 (area about 38855 square yards.")*

No. 11750.

* Last year the rights were sold (1) for Rs. 180 and (2) Rs. 1,500, which included the sides of the open main drain between Arthur and Clerk Roads.

Resolved: "That the following be *recorded*:—Letter No. 24402, dated 18th instant, to the Secretary from the Commissioner, reporting under section 92 (*a*) of the Municipal Act, that he has sold the rights of cutting grass and removing fruits and leaves from the Municipal land in charge of the Water Works Department outside of Bombay as per following statement":—

No. 11751.

THE right of cutting grass from Municipal Water Works Tansa, and of removing mangoes and other fruits and tad and lands, were sold by Auction at the Municipal Offices, Bombay,

---

Lot 1.—Taking grass from Municipal grass land around the margin of Pawai Lake and about the Vehar Road and Pawai Engine House. Area, about 100 acres.

Lot 2.—Taking grass from the margin of Vehar Lake; from the islands in the Lake; and from the banks of catchwater channels. Area, over 100 acres.

Lot 3.—Taking grass from the margin of Tulsi Lake and in the Tulsi Jungle. Area, about 1,600 acres, including forest lands.....

Lot 4.—Taking grass from the Tulsi pipe line, Tulsi to Andheri-Marol Road. Width of ground, 50 feet, Length, about 6 miles. Area, 36 acres.....

Lot 5.—Taking grass from the Tulsi pipe line, Andheri-Marol Road to Bandra. Width of ground, 50 feet. Length, about 4½ miles. Area, 26 acres.....

Lot 6.—Taking grass from the Vehar pipe line, Vehar to Kurla. Width of ground, about 25 feet. Length, 5½ miles. Area, about 17 acres.....

Lot 7.—Removing mangoes from Municipal trees at Pawai; about 2,500 trees. Period of contract, 1st January 1895, to 31st December 1895 .....

Lot 8.—Removing leaves from date trees on Municipal land at Pawai; about 2,500 trees. Period of contract, 1st January 1895 to 31st December 1895.

Lot 9.—Removing leaves and fruits from tad palms on Municipal lands at Pawai; Vehar and Tulsi; about 1,450 trees. Period of contract, 1st January 1895 to 31st December 1895.....

Lot 10.—Removing fruits from all Municipal tamarind, custard-apple, guava, jambhul, bor and cocoanut trees at Pawai; about 260 trees. Period of contract, 1st January 1895 to 31st December 1895.....

Lot 11.—For cutting all dead trees of every kind and all living trees and brushwood at Pawai, except trees of the following kinds:—mango, tamarind, custard-apple, guava, jambhul, bor, cocoa, tad and date palms. The Contractor will be held responsible for any damage done by him or his men to the reserved trees. Period of contract, 1st January 1895 to 31st December 1895.....

Lot 12.—Cultivating singodas in the Goper Dam and 2 tanks on the margin of Pawai Lake. Period of contract, 1st January 1895 to 31st December 1895.

Lot 13.—Fishing in Pawai Lake .....

Lot 14.—Cultivating rice on land near Pawai engine house. Area, about 2 acres ...

grounds in Salsette and along the Tansa Duct line from Kashcli to date palm leaves and cutting jungle and all dead trees in the same on the 20th December 1894 from the 1st February 1895 to the 31st January 1896.

No.	For 1894-95.		For 1895-96.		Remarks.
	Name of the highest bidder.	Amount.	Name of the highest bidder.	Amount.	
		Rs.		Rs.	
1					
2					
3					
4					
5					
6					
7					
8	Mr. Tookaram Malar...	1,600	Messrs. Magan Nathoo and Hormasji Nassarwanji.	1,700	For lots 1 to 14.
9					
10					
11					
12					
13					
14					

Lot 15.—Taking grass from the margin of Tansa Lake. Area, about 1,500 acres...

Lot 16.—Taking grass and removing fruits from mango and other injaili trees growing on the Municipal land near Tansa Dam, known as the 1,000 and 500 feet strips, and for cultivating the same. Width, 1,000 and 500 feet. Length, 2 miles. Area, 270 acres.....

Lot 17.—Taking grass and removing fruits from mango and other injaili trees from Duct Line, from junction with 1,000 feet strip at Tansa to Tunnel No. 2, and cultivating the piece of Municipal rice land at Khoeta. Width of Duct Line, 110 feet. Length, 2½ miles. Area, 27 acres ... .

Lot 18.—Taking grass and removing fruits from mango and other injaili trees from the Tansa Duct Line, from Tunnel No. 2 to Tunnel No. 3, and cultivating the rice land ; 8 acres, at Vandra. Width of Duct Line, 90 feet. Length, 3 miles. Area, 36 acres.....

Lot 19.—Taking grass and removing fruits from mango and other injaili trees from the Tansa Duct Line, from Tunnel No. 3 to Tunnel No. 4. Width, 90 feet. Length, nearly 2 miles. Area, 20 acres.....

Lot 20.—Taking grass and removing fruits from mango and other injaili trees from the Tansa Duct Line, from Tunnel No. 4 to Tunnel No. 7. Width, 90 feet. Length, 3½ miles. Area, 37.....

Lot 21.—Taking grass from the Tansa Duct Line, from tunnel No. 7 to tunnel No. 8. Width, 90 feet. Length, 4 miles. Area, 45 acres.....

Lot 22.—Taking grass from the Tansa Duct Line, from tunnel No. 8 to tunnel No. 10. Width, 90 feet. Length, 3 miles. Area, 32 acres .....

Lot 23.—Taking grass and removing fruits from mango and other injaili trees growing on the Tansa duct line, from Tunnel No. 10 to north end of Bassein Creek Siphon. Width, 90 feet. Length, 2¼ miles: Area, 27 acres.....

Lot 24.—Taking grass and removing fruits from mango and other injaili trees growing on the Tansa duct line, from north end of Bassein Creek Siphon to Bassein Creek Bridge. Width, 100 feet. Length, 7¼ miles. Area, 91 acres.....

Lot 25.—Taking grass and removing fruits from mango and other injaili trees growing on the Tansa duct line, from south of No. 2 Bassein Creek Bridge to the south end of Bassein Creek Siphon. Width, 100 feet. Length, 3¼ miles. Area, 42 acres .....

Lot 26.—Taking grass and removing fruits from mango and other injaili trees growing on the Tansa duct line, from the south end of Bassein Creek Siphon to the north end of Pawai Siphon. Width, 90 feet. Length, 6 miles. Area, 67 acres .....

Lot 27.—Taking grass and removing fruits from mango and other injaili trees growing on the Tansa duct line, from the north end of Pawai Siphon to Ghatkoper Siphon Head. Width, varying. Length, 3 miles. Area, 32 acres including 100 tad trees .....

Lot 28.—Taking grass and removing fruits from the mango and other injaili trees, growing on the Tansa duct line, from Ghatkoper Siphon Head to Kurla Creek. Width, varying. Length, 4 miles. Area, 71 acres .....

No.	For 1894-95.		For 1895-96.		Remarks.
	Name of the highest bidder.	Amount.	Name of the highest bidder.	Amount.	
		Rs.		Rs.	
15	Mr. Tookaram Malar...	11	.....	.....	Offer of Rs. 7 not accepted.
16	„ Tookaram Malar...	83	Mr. Vithal Balkrishna.	140	
17	„ Ebrahimji Hasan-alli.	40	„ Ganpat Mahadu ...	65	
18	„ Tookaram Malar...	35			
19	„ Tookaram Malar...	5			
20	„ Tookaram Malar...	5			
21	„ Tookaram Malar...	5	„ Barkia Sadu Patel.	51	For lots 19 to 23 and 25 and 26.
22	„ Tookaram Malar...	5			
23	„ Tookaram Malar...	5			
24	„ Tookaram Malar...	62	„ Kana Charia Patel.	65	
25	„ Tookaram Malar...	40			
			„ Barkia Sadu Patel.	.....	Do.
26	„ Tookaram Malar...	25			
27	„ Tookaram Malar...	43	„ Philip Jao Pereira.	80	
28	„ Tookaram Malar...	66	„ Gustin Jao Mahatra	100	
	Total Rupees...	2,030	Total Rupees...	2,151	

Resolved: "That the following be *recorded* :—Memo-
No. 11752. randum No. 23753, dated 15th instant, from the Commissioner reporting that no house or portions of a house fell during the month of December last."

Resolved : "That the following be *recorded* :—Memo-
No. 11753. randum No. 23867, dated 15th instant, from the Commissioner forwarding the following analyses of water :—

Unfiltered Tulsi water taken from the Inlet well of Malabar Hill Reservoir, at 7 a.m. on 4th January 1895.

	Parts per million.
Free Ammonia	·04
Albuminoid Ammonia	·19

Filtered Tulsi water taken from the Siphon well (No. 1 Filtered) of Malabar Hill Reservoir, on 4th January 1895.

	Parts per million.
Free Ammonia	·015
Albuminoid Ammonia	·11

Unfiltered Vehar Water taken from Inlet channel of the Bhandarwada Reservoir, on 4th January 1895.

	Parts per million.
Free Ammonia	·01
Albuminoid Ammonia	·16

Filtered Vehar Water taken from filter channel of the Bhandarwada Reservoir, on 4th January 1895.

	Parts per million.
Free Ammonia	·005
Albuminoid Ammonia	·09

Tansa Water from the strained water basin at Ghatkoper Siphon Head on 4th January 1895.

	Parts per million.
Free Ammonia	·01
Albuminoid Ammonia	·10

The following return was read and *recorded* :—

Returns of fires at Pedder Road, Musjid Bunder, Gamdevi Road and No. 210 Bellasis Road, forwarded with the Commissioner's Memoranda, No. 23725 and 24314, dated 14th and 18th instant, 1895*.

In accordance with notice of motion it was proposed by Accacio G. Viegas, Esq.—

"That in the opinion of the Standing Committee it is
No. 11755. desirable that the Municipal Commissioner should provide, in all future drainage contracts brought before the Standing Committee for sanction, that the time within which each section of the

* *See* Appendix C.

work shall be completed after excavation has been commenced, shall be strictly specified."

The motion was seconded by S. Rebsch, Esq., and *carried* by 4 votes *against* 3 votes.

The following Statement† was laid on the table :—

The Statement of the height of water in the Vehar, Tulsi, Pavai and Tansa Lakes, for the week ending 20th January 1895.

The consideration of a confidential memorandum from the Commissioner was postponed until next week.

BOMBAY, 30*th January* 1895.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, Esq., *Chairman*.

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M. ; COWASJEE HORMUSJEE, ESQ., G.G.M.C. ; THE HON'BLE MR. FAZULBHOY VISRAM, C.I.E. ; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK ; KAIKHOSRO N. KABRAJEE, ESQ. ; K. M. SHROFF, ESQ. ; S. REBSCH, ESQ., ASSO. M.I.C.E. ; ACCACIO G. VIEGAS, ESQ., L. M. & S.; R. H. VINCENT, ESQ.; C.I.E. ; CAPTAIN W. P. WALSHE ;

H. A. ACWORTH, ESQ., I.C.S., Commissioner ; and the SECRETARY.

The minutes of the meetings held on the 16th and 23rd instant, were signed.

The seal of the Corporation was affixed to the following debentures :—2 debentures of the Tansa Water Works Loan (of the 5th instalment for a currency of 50 years to be exchanged for those originally issued for a currency of 40 years), Nos. 20167-68 and 20169-70 of Rs. 1,000 each ; 3 Do. do. do. do. do do. do. Nos. 21097, 21115 and 21116 of Rs. 500 each ; 1 consolidated debenture of the Bombay Municipal Sanitary Works Loan of 1885—Nos. 1719-1720 of Rs. 1,000 ; 1. Do. do. do. do. Nos. 3550-53 N. N. of Rs. 2,000 ; 1 Do. do. do. do. Nos. 3098-3104 N. N. of Rs. 3,500 ; 1 Do. do. do. do. Nos. 2714-21 N. N. of Rs. 4,000 ; 1 Do. do. do. do. Nos. 3430-47 N. N. of Rs. 9,000 ; 12 attested duplicate debentures of the Tansa Water Works Nos. 726, 761 to 767, 777, 4925, 15658

† *See* Appendix B.

and 17534 of Rs. 500 each ; 1 Do. do. do. do. Nos. 18573-74 of Rs. 1,000 ; 2 attested duplicate debentures of the Municipal Sanitary Works Loan of 1885, Nos. 2795 N. N. and 3252 N. N. of Rs. 500 each ; 5 attested duplicate debentures of the Bombay Municipal (Drainage) Loan of 1878—Nos. 1522 to 1526 of Rs. 500 each.

The seal was affixed to deed of contract with Messrs. Volkart Brothers, for the supply of one portable engine with field boiler.

Considered the following :—

No. 312.

GENERAL DEPARTMENT.

BOMBAY CASTLE, 25*th January* 1895.

Letter from the Municipal Commissioner for the City of Bombay, No. 23161, dated 10th January 1895, forwarding copies of the letters noted in the margin; and requesting that, under section 59 (1) (*a*) of the Bombay Municipal and under such section of the Civil Service Regulation as may apply to his case, furlough for one year from the 6th April next may be granted to him as applied for by him in his letter to the Municipal Secretary, and sanctioned by the Standing Committee.

Letter from the Municipal Commissioner for the City of Bombay to the Municipal Secretary, No. 22182, dated 3rd January 1895, letter from the Municipal Secretary to the Municipal Commissioner, No. 11010, dated 9th January 1895.

Report by the Accountant General, No. G. A. 27304, dated 18th January 1895.

"I hereby certify that Mr. H. A. Acworth will have completed 20 years' 3 months' and 6 days' active service on the 6th April 1895, entitling him to 5 years' and 24 days' furlough, of which he has already taken only 4 years and 18 days, and that he will, therefore, have at his credit on that date 1 year and 8 days' furlough, and is entitled to take 1 year's furlough applied for by him under article 340 (*b*) of the Civil Service Regulations.

RESOLUTION.—The furlough applied for by Mr. Acworth is granted, and should be notified in the *Bombay Government Gazette.*

G. S. CURTIS, Under Secretary to Government.

No. 24948 OF 1894-95.

26*th January* 1895.

Copy forwarded to the Municipal Secretary, for the information of the Standing Committee and the Corporation.

H. A. ACWORTH, Commissioner.

Resolved : "That Government Resolution No. 312, General Department, dated 25th instant, sanctioning the furlough to Mr. H. A. Acworth, Municipal Commissioner, for one year from the 6th April next, forwarded under his memorandum No. 24948, dated 26th idem, *be recorded.*"

No. 12159.

Resolved : "That sanction be given to the cutting off of water connections as per list submitted with the Commissioner's memorandum No. 25207, dated this day."

No. 12160.

Considered letter No. 24766, dated 24th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to report that the following establishment was employed on the construction of Gilder Street, Club Street, Souter Street, and Morland Road from the 18th October 1893.

1 Inspector	at Rs. 100		
1 Surveyor	„ „ 75		
1 Draftsman	„ „ 20	each.	for 21 months.
1 Clerk	„ „ 40		
2 Clerks	„ „ 30		
4 Lascars	„ „ 10		
1 Inspector	at Rs. 110		
2 Surveyors	„ „ 70	each.	for 15 months.
4 Lascars	„ „ 10		

The salaries of the establishment were debited to the 5 per cent. contingencies provided for the works. On the 31st ultimo, the period for a portion of the establishment expired, but as the construction of Club and Souter Roads and Gilder Street is still in progress, and as it will be necessary to take final measurements and close accounts when the roads are completed, to survey the whole of the land and to do other works in connection therewith, the Executive Engineer has proposed to retain the following establishment on the revised scale from the 1st January 1895 to 30th June 1895, to be paid out of the savings of 5 per cent. contingencies provided for the establishment on the works :—

1 Inspector	at Rs. 110	
1 Do.	„ „ 100	
2 Clerks	„ „ 30	each.
6 Lascars	„ „ 10	„

I therefore request the sanction of the Standing Committee and the Corporation to the proposal.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : " That letter No. 24766, dated 24th instant, to the Secretary from the Commissioner, be forwarded to the Corporation, with the recommendation that sanction be given to the retention of the following establishment from 1st January to 30th June 1895, in order to allow of final measurements being taken and accounts closed when Club and Souter Roads and Gilder Street, Agripada, are completed, as also to provide for the survey of the whole of the land adjacent, and for works in connection with the construction of the new roads in Agripada :—

No. 12161.

1	Inspector	at	Rs. 110	per mensem.	
1	Do.	,,	,, 100	do.	
2	Clerks	,,	,, 30	do.	each.
6	Lascars	,,	,, 10	do.	each.

" The charge to be met from savings of 5 per cent. contingencies provided for the staff on the works."

Resolved : " That, with reference to the Commissioner's memorandum No. 24594, dated 22nd instant, the Corporation be recommended to sanction the grant of Rs. 1,650 from Surplus Cash Balance to meet the cost of working the steam-engine for flushing gullies to the end of the current year."

No. 12162.

Resolved : " That, as applied for by the Commissioner in his memorandum No. 24593, dated 22nd instant, sanction be given to the transfer of Rs. 394, from savings in Conservancy Branch, 2 Labour, A Scavengering, Labour, Health Department, to General Supervision, 3 Contingencies, to meet excess on the latter head, due to the cost of fixing Wallace's pail depôts at the Girgam, Kamathipura, and Sonapur Night-Soil Depôts."

No. 12163.

Resolved : " That, as applied for by the Commissioner in his letter No. 24994, dated 26th instant, sanction be given to the payment of bhatta allowance at the rate of Re. 1-8-0 per day to each of the three surveyors while employed on the work of taking cross sections of the Tansa-Bassein siphon.

No. 12164.

" That total cost, Rs. 112-8-0, to be debited to the grant for the work."

Resolved: "That, as applied for by the Commissioner in his letter to the Secretary, No. 24757, dated 24th instant, sanction be given under section 92 (*b*) of the Municipal Act, to the leasing to the Commissioner of Police of a plot of ground at Warli Road, admeasuring 7·11 square yards as shown in red colour on the tracing marked "A," dated this day and filed in supplement to minute books, at a rental of Re. 0-2-7 per annum on sufferance for one year, the chowky to be removable at 3 months' notice."

No. 12165.

Resolved: "That, as applied for by the Commissioner in his letter to the Secretary, No. 25160, dated 29th instant, sanction be given to the acceptance of Mr. Bhojabhoy Allarakhia's tender for the supply of Hay, &c., for the period of one year, from 1st March next, at the following rates :—

No. 12166.

To be delivered in Bombay.

"Deccan and Konkan grown Hay at	Rs.	9	5	0	per 1000 lbs.
Other, or general hay.....	„	9	2	0	do.
Green grass	„	4	8	0	do.
Rice straw	„	6	8	0	do.

To be delivered at Bandora.

Hay at	Rs.	9	0	0	do.
Green grass	„	4	8	0	do.
Rice straw	„	7	0	0	do.

Considered the following :—

BOMBAY, *22nd January* 1895.

To H. A. ACWORTH, Esq., Commissioner.

SIR,—With reference to the previous correspondence ending with the Chief Accountant's letter No. 3447, of the 19th November last, written in reply to our letter to the address of the Acting Municipal Commissioner, of the 19th ibid, on the subject of the suit marginally noted, we have the honour to forward you herewith copy of the Taxing Master's allocatur of the Plaintiff's bill cost of (served upon us to-day) payable by the Municipality to them in pursuance of the Decree made herein on the 4th of October 1894, and request you to make the necessary arrangement without delay to forward to us a cheque for the amount therein mentioned, *viz*, Rs. 6,016-10-0 together with interest thereon at 6 per cent. per annum from the 4th day of October till the date of your sending us the cheque for the amount to enable us

Subject:—
Cooverji Heerji and others
versus
Municipal Corporation of Bombay.

to deposit the same in Court in pursuance of the Court's orders, dated the 13th day of October last.—We have, &c.,

CRAWFORD, BURDER & Co.

No. 24744 OF 24th *January* 1895.

Copy forwarded to the Municipal Secretary for the information of the Standing Committee.

Under the circumstances, I have directed the Chief Accountant to make the necessary payment.

H. A. ACWORTH, Commissoner.

In the High Court of Judicature at Bombay.

ORDINARY ORIGINAL CIVIL JURISDICTION.

SUIT No. 402 OF 1893.

COOVERJI HEERJI AND OTHERS .....*Plaintiffs.*

versus

THE MUNICIPAL CORPORATION .....*Defendants.*

Plaintiff's Bill of costs to be taxed between party and party pursuant to the decree, dated the 4th day of October 1894, and between Attorney and Client.

Allowed between party and party the sum of Rupees six thousand and sixteen and annas ten pursuant to the decree, dated 4th October 1894, and between Attorney and Client Rupees two hundred and fifty-five and annas twelve.

This 21st day of January 1895.

G. H. FARRAN, Taxing Master.

Resolved : "That memorandum No. 24744, dated 24th instant, from the Commissioner to the Secretary, be forwarded to the Corporation with the recommendation that sanction be given to the grant of Rs. 6,016-10-0, together with interest thereon from 4th October 1894 to 29th January 1895 (Rs. 116-11-6), total Rs. 6,133-5-6, to cover the costs in question.

No. 12167.

"The charge to be met by an advance from Surplus Cash to be adjusted hereafter by debit to the sale proceeds of frontages on the new roads in Agripada and elsewhere constructed out of the 22½ lakhs sanctioned for the works."

Resolved : "That the following be *recorded* :—Letter No. 24953, dated 26th instant, from the Commissioner to the Secretary, reporting that

No. 12168.

the Municipal Solicitors' report that the Apellate Court consisting of the Chief Justice and Mr. Justice Farran have dismissed with costs the appeal lodged by the Municipality in the case of Mr. Shavaksha Dhunjeebhoy for alleged wrongful arrest and malicious prosecution and have confirmed the decision of the Lower Court."

Considered again letter No. 23959, dated 16th instant, from the Commissioner to the Secretary, as under :—

Sir,—I have the honour to state that the Executive Engineer has brought to my notice the advisability of erecting another kerosine oil godown at the Stores Depot at Bellasis Bridge, exactly similar to the one recently built at a cost of Rs. 5,139. The present godown is not sufficiently large and will be altogether inadequate for the storage of kerosine oil in case it is decided to light both the wicks of the existing kerosine oil lamps. I may point out that the provision of sufficient accommodation for the storage of kerosine oil cases will ultimately lead to economy in kerosine oil lighting as will be proved by the fact that at the commencement of the year 1894, 5,000 cases of oil were purchased and stored in the present godown—small as it is—when the oil was cheap. This has caused a saving of nearly Rs. 5,000 in the cost of the oil.

As there is a saving of over Rs. 6,000 in the kerosine oil lighting grant up to the end of December last, I have the honour to request the sanction of the Standing Committee and the Corporation to erect a godown somewhat larger than the existing one at a cost not exceeding Rs. 6,000 to be paid out of the savings described above.—I have, &c.,

H. A. Acworth, Commissioner.

Considered letter No. 25219, dated this day, from the Comissioner to the Secretary, as under :—

Sir,—In reference to the Standing Committee's Resolution No. 11748 of the 23rd instant, I have the honour to forward herewith an estimate, amounting to Rs. 5,925, of the probable cost of erecting a new kerosine oil godown at the Bellasis Bridge.—I have, &c.,

H. A. Acworth, Commissioner.

Resolved :—"That letter No. 23959, dated 16th instant, from the Commissioner, be forwarded to the Corporation with the recommendation that sanction be given to the expenditure of Rs. 5,925 from Surplus Cash Balance to meet the cost of erecting additional godown for the storage of kerosine oil at Bellasis Bridge."

No. 12169.

Resolved: "That the following be referred to the Commissioner for favour of remarks :—Letter to the Chairman, dated 22nd instant, from Mr. Byramji Rastomji on the question of the erection of a market at Currey Road."

No. 12170.

Resolved: "That the following be circulated and brought on at next meeting :—Letter No. 24995, dated 26th instant, to the Secretary from the Commissioner requesting sanction to the payment, from invested surplus balance, of Rs. 2,74,486 on account of Police charges for the year 1894-95 and 1895-96."

No. 12171.

The following return was read and *recorded* :—

Return of fires at Khetwady 3rd Lane, Clare Road, No. 594 Duncan Road and Dharavi Road, forwarded with the Commissioner's Memorandum No. 24567, dated 22nd instant, 1895*.

The following statement† was laid on the table :—

The statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes for the week ending 27th January 1895.

The Resolution under this number was passed by the Standing Committee after private discussion, and was ordered to be filed in the file of confidential papers No. 280 kept by the Secretary.

No. 12173.

Proposed by K. M. Shroff, Esq., seconded by the Hon'ble Mr. Javerilal U. Yajnik—

"That with reference to their Resolution No. 12106, dated 28th instant, the Corporation be recommended to sanction the grant of Rs. 198 from Surplus Cash Balance, to meet the cost of printing Statements A and B, attached to Mr. Stevens' award on the rateable value of Government buildings and lands."

No. 12174.

Carried by 8 votes *against* 2 votes.

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* *See* Appendix C. † *See* Appendix B.

BOMBAY, *6th February* 1895.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L. M. ; COWASJEE HORMUSJEE, G.G.M.C. ; THE HON'BLE MR. FAZULBHOY VISRAM, C.I.E. ; HURKISONDAS NURROTUMDAS, ESQ. ; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK ; KAIKHOSRO N. KABRAJI, ESQ. ; K. M. SHROFF, ESQ. ; S. REBSCH, ESQ., ASSO. M.I.C.E. ; ACCACIO G. VIEGAS, ESQ., L. M. & S. ; R. H. VINCENT, ESQ., C.I.E. ; CAPTAIN W.P. WALSHE.

H. A. ACWORTH, ESQ., I. C. S., Commissioner ; and the SECRETARY.

The minutes of the Meeting held on the 30th ultimo, were signed.

The seal of the Corporation was affixed to deeds of contract (1) with Messrs. Mahler and Roscher for the work of providing, fixing and maintaining incandescent gas lamps at the Erskine Road, Fort, and Pedder Markets, and (2) with Messrs. Garlick & Co. for paving with Indian patent flagstones a portion of the Bellasis Road footpath, fronting Messrs. Treacher's shop.

Resolved : "That as applied for by the Commissioner in his Memoranda Nos. 25163, 25164, and 25166, dated 30th ultimo, sanction be given under section 351 (2) of the Municipal Act, to the removal of the following structures built without permission :—

No. 12540.

Names of owners.	Where.
Hadji Cassum Joosub	Building at No. 19 Coppersmith Street.
Mr. Nanabhoy Burjorjee Saklath	Shed at No. 100 Khetwadi Main Road.
Mr. Hari Bhairoo	Arthur Road.

"That the consideration of Memorandum No. 25165, dated 30th ultimo, from the Commissioner asking sanction to the demolition of Shed at DeLisle Road be postponed until the Commissioner has ascertained the name of the owner thereof."

Resolved: "That as applied for by the Commissioner in his Memorandum No. 25697, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 12541.

Considered the following :—

No. 24995 OF 1894-95.

BOMBAY, 26*th January* 1895.

TO THE MUNICIPAL SECRETARY.

SIR,—I have the honour to forward copy of a letter No. 379 of 18th instant, from the Secretary to Government, Judicial Department, with its accompanying proposition statement, and also a report on the subject from the Chief Accountant. It is unnecessary for me to add any thing except to point out that we are called on to make further provision for Police charges over and above that made in the Budget as follows :—

1894-95	Rs. 1,42,391
1895-96	Rs. 1,32,095
	Rs. 2,74,486

The Chief Accountant says that this sum may be provided either by extra taxation or reduction of our invested balance, *vide* his para. 9 in which he gives the figures and their consequences on the closing balances of the two years in question. The latter alternative is doubtless the one which the Corporation will adopt, and I now ask for sanction from the Standing Committee and Corporation to the necessary payments.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 379 OF 1895.

JUDICIAL DEPARTMENT,

BOMBAY CASTLE, 18*th January* 1895.

TO THE MUNICIPAL COMMISSIONER

For the City of Bombay.

SIR,—I am directed to forward to you herewith copy of a proposition statement submitted to the Government of India in connection with the recent changes in the Police Establishment

of the City of Bombay, showing a net increase of Rs. 10,291-8-8 per mensem as the cost of the additional police sanctioned from 1st June 1894. (2.) I am to inform you that the Accountant General, Bombay, has brought to the notice of Government that the monthly contribution paid by the Bombay Municipality on account of the City Police is quite insufficient for the purpose owing to the further increase to the Bombay City Police force entertained with the sanction of the Government of India from 1st June 1894. (3.) The estimated share due by the Municipality for the year 1894-95 amounts to Rs. 5,52,854, out of which Rs. 3,13,823 have been credited up to date, leaving an approximate balance of Rs. 2,39,031, to be paid during the current year. I am, therefore, to request that you will be so good as to pay the balance during the remaining two months of the current year, *i.e.*, at Rs. 1,19,515, or, say, Rs. 1,19,000 per month, subject to adjustment at the close of the year. (4.) The Municipal share of the City Police expenses for 1895-96, as at present estimated, is Rs. 5,42,558, minus Rs. 10,463 for the grant for the Victoria and Albert Museum, &c., or Rs. 5,32,095; and I am to inform you that it is proposed to fix the Municipal contribution for that year at a monthly rate of Rs. 44,000, any balance being adjusted at the close of the year. (5.) I am to add that statements shewing the expenditure in detail are under preparation by the Accountant General, and will be furnished to you when ready.—I have, &c.,

G. W. VIDAL, *Acting Secretary to Government.*

Statement

Statement of Proposition for Revision of

Order sanctioning present Establishment. Government of Bombay, Judicial Department.		Office to which the Proposition refers.	NATURE OF CHARGES.					
			PRESENT SCALE.				PRESENT SCALE.	
No.	Date.		No.	Designation	Pay.		No.	Designation.
					Rs. a. p.			
G. R., J. D., No. 5389.	28-8-93.		1	Superintendent (Senior)	500 0 0		1	Superintendent (Senior) ... ...
			1	Do. in charge Criminal Investigation Department from Rs. 350 to Rs. 600 by biennial increments of Rs. 50.	516 10 8		1	Do. in charge Criminal Investigation Department from Rs. 350 to Rs. 600 by biennial increments of Rs. 50.
			5	Superintendents at Rs. 300 to Rs. 450 by biennial increments of Rs. 50 each, at Rs. 410 each.	2,050 0 0		5	Superintendents at Rs. 300 to Rs. 450 by biennial increments of Rs. 50 each at Rs. 410 each.
			1	Inspector at Rs. 300 to Rs. 350 by biennial increments at Rs. 50.	310 0 0		1	Inspector at Rs. 250 to Rs. 350 by biennial increments of Rs. 50.
			4	Inspectors at Rs. 200 each	800 0 0		5	Inspectors at Rs. 200 each ... ...
			7	Do. at „ 175 „	1,225 0 0		8	Do. at „ 175 „ ... ...
			9	Do. at „ 140 „	1,260 0 0		11	Do. at „ 140 „ ... ...
				Horse allowance to 1 Superintendent at Rs. 75, and 6 Superintendents and 1 Inspector at Rs. 50 each.	425 0 0			Horse allowance to 1 Superintendent at Rs. 75, and 6 Superintendents and Inspector at Rs. 50 each.
			6	European Constables at Rs. 120 each.	720 0 0		11	European Constables at Rs. 120 each.
			13	Do. at „ 110 each.	1,430 0 0		19	Do. at „ 110 „
							1	Jamadar ... ...
			7	Jamadars at Rs. 70 „ ...	490 0 0		8	Jamadars at Rs. 70 „ ...
			10	Do. at „ 50 „ ...	500 0 0		12	Do. at „ 50 „ ...
			14	Do. at „ 30 „ ...	420 0 0		16	Do. at „ 30 „ ...
			17	Havildars at „ 25 „ ...	425 0 0		21	Havaldars at „ 25 „ ...
			20	Do. at „ 19-6-0 „ ...	387 8 0		25	Do. at „ 19-6-0 „ ...
			35	Do. at „ 15-8-0 „ ...	532 8 0		40	Do. at „ 15-8-0 „ ...
			10	Constables at „ 13-9-0 „ ...	135 10 0		20	Constables at „ 13-9-0 „ ...
			338	Do. at „ 12-9-6 „ ...	4,256 11 0		366	Do. at „ 12-9-6 „ ...
			478	Do. at „ 11-10-0 „ ...	5,562 12 0		534	Do. at „ 1 -10-0 „ ...
*G. R., J. D., No. 1636.	2-3-94.		*529	Do. at „ 10-10-6 „ ...	5,637 2 6		697	Do. at „ 10-10-6 „ ...
			1505	Total...	27,587 14 2		1720	Total ...
				Mounted Police.				*Mounted Police.*
			1	Jamadar...	80 0 0		1	Commandant on Rs. 200 and horse allowance Rs 50.
			2	Dafedars at Rs. 25 and horse allowance Rs. 30.	110 0 0		2	Inspectors at Rs. 140 and horse allowance Rs. 40 each.
			4	First class Constables at Rs. 13-9-0 and horse allowance Rs 35.	194 4 0		2	Constables at Rs. 120 and horse allowance Rs. 40 each.
			26	First class Constables at Rs. 13-9-0 and horse allowance Rs. 30.	*1,131 13 0		1	Risaldar on Rs. 100 and horse allowance Rs. 30.
							2	Jamadars on Rs. 50 and horse allowance Rs. 30.
							6	Defedars on Rs. 25 and horse allowance Rs. 30.
							3	Naiks on Rs. 19-6-0 and horse allowance Rs. 30.
							2	Farriers on Rs. 19-6-0 and horse allowance Rs. 30.
							1	Trumpeter on Rs. 19-6-0 and horse allowance Rs. 30.
			83	Carried over...	1,516 1 0		20	Carried over ...

* The amounts shown represent the actuals payable to the men after deducting 13 annas on account of 26 men at the rate of half an anna per man on account of the Superannuation Fund. This would ordinarily be deducted out of the house rent allowance of one rupee due to each of the men, but as these men are allowed free quarters, house rent allowance is not paid to them and so the half anna is deducted out of their pay instead.

A.

Establishment of Bombay City Police.

Pay.	PROPOSITION.						Grounds of proposition.	Local Government's recommendation.	ORDERS OF THE GOVERNMENT OF INDIA.		
	PERMANENT.		TEMPORARY.						HOME DEPARTMENT.	FINANCIAL DEPARTMENT.	
	Increase per month.	Decrease per month	Increase per month		Decrease per month						
	Amount.	Amount	Period.	Amount.	Period.	Amount.			Remarks.	Remarks.	Order.
Rs. a. p.	Rs. a. p.	Rs. a. p									
500 0 0											
516 10 8											
2,050 0 0											
310 0 0											
1,000 0 0	200 0 0										
1,400 0 0	175 0 0										
1,540 0 0	280 0 0										
425 0 0	.....										
1,302 0 0	600 0 0										
2,090 0 0	660 0 0										
70 0 0	70 0 0										
560 0 0	70 0 0										
600 0 0	100 0 0										
480 0 0	60 0 0										
525 0 0	100 0 0										
484 0 0	96 14 0										
620 0 0	77 8 0										
379 12 0	244 2 0										
4,609 5 0	352 10 0										
6,207 12 0	651 0 0										
6,463 5 6	831 3 0										
32,156 3 2	4,568 5 0										
250 0 0	250 0 0										
360 0 0	360 0 0										
320 0 0	320 0 0										
130 0 0	130 0 0										
160 0 0	80 0 0										
330 0 0	220 0 0										
148 2 0	148 2 0										
98 12 0	98 12 0										
49 6 0	49 6 0										
1,846 4 0	1,656 4 0										

Statement of Proposition for Revision of

Order Sanctioning present Establishment, Government of Bombay, Judicial Department.		Office to which the Proposition refers.	NATURE OF CHARGES.					
			PRESENT SCALE.			PROPOSED SCALE.		
No.	Date.		No.	Designation.	Pay.	No.	Designation.	
					Rs. a. p.			
			33	Brought forward...	1,516 1 6	20	Brought forward...	
				Mounted Police—continued.			*Mounted Police*—continued.	
						2	Drill Masters on Rs. 19-6-0 and horse allowance Rs. 30.	
						4	First Class Constables on Rs. 18-9-0 and horse allowance Rs. 30.	
						79	Constables on Rs. 13-9-0 and horse allowance Rs. 30.	
			33	Total...	1,516 1 0	105		
			1538	Cost of Foot and Mounted Police..	29,103 15 2	1 5	Cost of Foot and Mounted Police.	
				House-rent. For Europeans...3,225 0 0 / „ Natives ...1 438 2 0	4,663 2 0		House-rent. For Europeans. 4,400 0 0 / „ Natives ... 1,737 2 0	
				OFFICE ESTABLISHMENT.			OFFICE ESTABLISHMENT.	
				Clerks.			*Clerks.*	
			1	Head Clerk	180 0 0	1	Head Clerk	
			1	Clerk	100 0 0	1	Clerk	
			1	Do.	75 0 0	1	Do.	
			1	Do.	70 0 0	1	Do.	
			1	Do.	65 0 0	1	Do.	
			1	Do.	60 0 0	1	Do.	
			1	Do.	55 0	1	Do.	
				Allowances to 18 Karkuns at Rs. 2 each.	36 0 0		Allowances to 18 Karkuns at Rs. 2 each.	
			1	Clerk	55 0 0	1	Clerk	
*G. R., J. D., No. 1636.	2-3-94.		*3	Do. at Rs. 50 each...	150 0 0	*3	Do. at Rs. 50 each	
			1	Do.	40 0 0	1	Do.	
			1	Do.	35 0 0	1	Do.	
			1	Do.	30 0 0	1	Do.	
			*1	Do.	25 0 0	*1	Do.	
G. R., G. D., No. 493.	10-2-94.		1	Protector of Pilgrims	100 0 0	1	Protector of Pilgrims	
			‡3	Clerks at Rs. 25 each... ...	75 0 0	‡3	Clerks at Rs. 25 each	
				§*Servants.*			§*Servants.*	
			2	Faráshis at Rs. 9-8-0 each	19 0 0	2	Farashis at Rs 9-8-0 each	
			2	Peons at Rs 12 each	24 0 0	2	Peons at Rs. 12 each	
			†2	Do. do.	24 0 0	†2	Do. do.	
				Total...	1,218 0 0		Total...	
			...	Grand Total...	34,985 1 2		Grand Total...	

† Entertained for six months in the year. ‡ Entertained for three months in the year.

§ 5 Halálkhors (3 at Rs. 17-1-0 per mensem, 1 at Rs. 17-3-0 and 1 at Rs. 18-3-0 per mensem) have been omitted as the charge on their account is treated as a fixed contingent charge.

The present scale has been verified.

(Signed) M. A. N. HYDARI,
Assistant Accountant General.

Establishment of Bombay City Police—continued.

Pay.	PROPOSITION. PERMANENT. Increase per month. Amount.	PROPOSITION. PERMANENT. Decrease per month. Amount.	PROPOSITION. TEMPORARY. Increase per month. Period.	PROPOSITION. TEMPORARY. Increase per month. Amount.	PROPOSITION. TEMPORARY. Decrease per month. Period.	PROPOSITION. TEMPORARY. Decrease per month. Amount.	Grounds of Proposition.	Local Government's recommendation.	ORDERS OF THE GOVERNMENT OF INDIA. HOME DEPARTMENT. Remarks.	ORDERS OF THE GOVERNMENT OF INDIA. FINANCIAL DEPARTMENT. Remarks.	ORDERS OF THE GOVERNMENT OF INDIA. FINANCIAL DEPARTMENT. Order.
Rs. a. p.	Rs. a. p.										
1,864 4 0	1,656 4 0										
98 12 0	98 12 0										
194 4 0	.....										
*3,440 10 0	2,308 13 0										
5,579 14 0	4,063 13 0										
37,736 1 2	8,632 *2 0										
6,137 2 0	1,474 0 0										
180 0 0											
100 0 0											
75 0 0											
70 0 0											
65 0 0											
60 0 0											
55 0 0											
36 0 0											
55 0 0											
150 0 0											
40 0 0											
35 0 0											
30 0 0											
25 0 0											
100 0 0											
75 0 0											
19 0 0											
24 0 0											
24 0 0											
1,218 0 0											
45,091 32	10,106 2 0										

* Increase as shown in Proposition Statement... Rs. 10,106 a. 2 p. 0

Add... 185 6 8 Monthly average of Clothing grant to 20 European and 265 Native Officers, as shown in the accompanying Statement B.

Total Increase per mensem.. 10,291 8 8

× 12

Total Increase per annum... 1,23,498 8 0

* The amounts shown represent the actuals payable to the men after deducting 13 annas on account of 26 men at the rate of half an anna per man on account of the Superannuation Fund. This would ordinarily be deducted out of the house rent allowance of one rupee due to each of the men, but as these men are allowed free quarters, house rent allowance is not paid to them and so the half anna is deducted out of their pay instead.

W. LEE-WARNER,

Secretary to Government.

STATEMENT B.

Showing the Clothing Grant to the Bombay City Police.

Order of Bombay Government sanctioning present Grant.	Present.				Proposed.				Increase per annum.
				Rs. a. p.				Rs. a. p.	Rs. a. p.
G. R., J.D., No. 5389 and No. 6376	28-8-93.	40	European Officers, below the rank of Superintendent		60	European Officers, below the rank of Superintendent.			
	10-10-93.	40	Officers at Rs. 45 per annum ...	1,800 0 0	60	Officers at Rs. 45 per annum ...		2,700 0 0	900 0 0
		103	Native Officers (mounted) of and below the rank of Jamadar.		16	Native Officers (mounted) of and below the rank of Jamadar.			
		13	Native Officers (foot) of and below the rank of Jamadar.		122	Native Officers (foot) of and below the rank of Jamadar.			
		30	Native Mounted Constables.		83	Native Mounted Constables.			
		1,355	Native Foot Constables.		1,535	Native Foot Constables.			
		1,491	Men at Rs. 5 per annum	7,455 0 0	1,756	Men at Rs. 5 per annum		8,780 0 0	1,325 0 0
				9,255 0 0				11,480 0 0	2,225 0 0 per annum.
				or Rs. 771-4-0 per mensem.				or Rs. 956-10-8 per mensem.	or Rs. 185-6-8 per mensem.

The present scale verified.

M. A. N. HYDARY,
Assistant Accountant General.

W. LEE-WARNER,
Secretary to Government.

MEMORANDUM No. 4306 OF 1894-95.

BOMBAY, *25th January* 1895.

TO THE MUNICIPAL COMMISSIONER.

Under letter No. 7398, dated 23rd November 1893, from Government, Judicial Department, the Corporation were requested to make monthly payments on account of the City Police, o- Rs. 30,000, subject to settlement at the close of the financial year, and the Corporation under Resolution No. 8976, dated 7th Decemf ber 1893, sanctioned payment of the same, and up to the present we have been paying monthly the sum of Rs. 30,300. (2.) The net cost of the City Police for the year 1894-95 payable by the Bombay Municipality was, as estimated by the Accountant General in his letter No. $\frac{B}{23355}$, dated 27th November 1893, (a copy of which was forwarded to us under Government No. 7764, dated 8th December 1893), Rs. 4,26,396. This estimate, it was stated, was provisional, and subject to modification on later information to be received from the Commissioner of Police. (3.) We are now informed that the estimated share due by the Municipality for the year 1894-95 is Rs. 5,52,854, or, deducting Rs. 10,463 on account of the Victoria Museum, &c., maintenance charges, Rs. 5,42,391, or nearly a lak and a quarter more than the estimate furnished by the Accountant General in November 1893. As provision in the Budget for 1894-95 was made for 4 lakhs only, an additional provision for the excess of Rs. 1,42,391 will have now to be made.

4. The balance due to Government for the remaining two months of the year as per the present estimate is Rs. 2,31,099 (*vide* details in the margin), and not Rs. 2,39,031 as stated in the letter of the Acting Secretary to Government. The difference of Rs. 7,932 is due partly to the Accountant General not having as yet adjusted the rent of quarters belonging to the Corporation and occupied by the Police from August to December 1894, and partly owing to credits for the remaining two months on account of the charges transferred to the Municipality not having been taken into account by that officer. Payments for the remaining two months should, therefore, be at Rs. 1,15,000, inclusive of rent of quarters, per month, subject to adjustment at the close of the year, instead of at the amounts stated by the Accountant General. (5.) For the year 1895-96, the Municipal share of the police expenses is estimated, after deducting the grant for the Victoria and Albert Museum and Queen's statue

Revised estimate for 1894-95	Rs	5,52,854
Less.—Credit on account of charges transferred to the Municipality		10,463
		5,42,391
Less.—Amount paid (including adjustment of rent)		3,11,292
Balance due to Government	Rs.	2,31,099

at Rs. 5,32,095, or Rs. 1,32,095 more than the provision of 4 lakhs made in the budget for that year. Additional provision for this excess will also have to be made. (6.) No details have been furnished by Government to indicate how the Municipal share of the cost of the Police force for 1894-95 and 1895-96, as now shown, has been arrived at. (7.) The total additional porvision we are now called upon to make over and above that for which budget provision has been made is :—

For 1894-95.	Rs.	1,42,391	0	0
„ 1895-96.	„	1,32,095	0	0
Total Rs.		2,74,486	0	0

Sanction of the Standing Committee and Corporation will have to be obtained to an extra grant for the above amount. (8.) The final adjustment of the police charges for the year 1893-94 has not yet been made by Government. It is quite probable that when it is, we shall, instead of receiving a refund as we did for the year 1892-93, be called upon to pay something more.

9. It is a question for decision, how the large amount now demanded of us is to be provided whether from the invested surplus balance shown in the Budgets for 1894-95 and 1895-96 or by means of additional taxation. If the extra sum now required be sanctioned from the invested surplus balance, the closing balance in the Budget for 1894-95 will be reduced by Rs. 1,42,391, and in that for 1895-96 by Rs. 2,74,486. (10.) For the year 1891-92 the actual cost to us of the Police charges was Rs. 2,58,285-7-0. For 1892-93 we paid Rs. 3,63,345. Rs. 33,072 of this amount was refunded to us in 1893-94, leaving the net cost at Rs. 3,30,273. Details of this expenditure, although called for more than a year ago, have not yet been furnished to us. For 1893-94 Budget provision was made for Rs. 3,63,345, which amount has already been paid to Government, but the final adjustment of this sum has not yet been made. For 1894-95 and 1895-96 Budget provision of Rs. 4 lakhs has been made for each year. It may here be pointed out that the Police charges to the Municipality in 1891-92 were only Rs. 2,58,285, and now in 1894-95 we are called upon to pay more than double this amount. (11.) It may also be pointed out that while the expenditure for the whole 12 months of 1895-96, including the increase, is estimated by Government at Rs. 5,32,095, that for 1894-95, during only 9 months of which year the increased Police was entertained, is Rs. 5,42,391. The cause of this difference does not appear from these papers. It is, however, stated that the statements showing in detail how the expenditure is arrived at will be furnished when ready, but it is a question whether in the absence of any detailed information we can go to the Corporation for an extra grant. (12.) I would also add that Government Resolution No. 493

of 10th February 1894, quoted in the accompanying proposition statement, and the sanction of the Government of India approving of the entertainment of the further increase to the Bombay City Police force from 1st June 1894, do not appear to have been forwarded for the Municipal records.

W. PEARSON, Acting Chief Accountant.

No. 12542. *Resolved*:—" (With one dissentient)—That with reference to the correspondence now before the Committee, the Corporation be informed that the Standing Committee do not, upon the materials now before them think, they would be justified in recommending payment of the amount now demanded, and suggest that the Corporation before arriving at a final decision in the matter should request Government to furnish the Municipality with the details asked for in the President's letters, No. 1438, of 8th May, and No. 6563 of 11th September last."

No. 12543. *Resolved*: " That as applied for by the Commissioner in his Memorandum, No. 25200, dated 30th ultimo, sanction be given to the transfer of Rs. 148-12-1 from savings in the Assessment and Collection Department, Town Duty Collection, Commission and Contingencies, B. B. and C. I. Railway Company to Revenue and Refund Audit Office, I establishment, to meet acting allowance payable to the Acting Revenue and Refund Officer."

No. 12544. *Resolved*: " That is applied for by the Commissioner in his Memorandum No. 25201, dated 30th ultimo, sanction be given to the transfer of Rs. 250 from savings in the Health Department Conservancy Branch, 10 Halalkhor Branch G Rent, to Markets and Slaughter Houses, IX Contingencies to meet excess on the latter head—consequent on the payment (1) of the auctioners bill and printing charges in connecion with the DeLisle Road Market, and (2) of halalkhor tax in respect of the Pedder Market."

No. 12545. *Resolved*: "That as applied for by the Commissioner in is Memorandum, No. 25202, dated 30th ultimo, and subject to the approval of the Corporation under section 133 (2) of the Municipal Act, sanction be given to the transfer of Rs. 545 from

savings in the Executive Engineer's Department, III Water Works' Section I Establishment and labour, to same head, III Contingencies, printing, to meet excess on the latter head."

No. 12546. *Resolved*: "That as applied for by the Commissioner in his Memorandum, No. 25139, dated 29th ultimo, sanction be given to the transfer of Rs. 100 from savings in the grant for Sir Cowasji Jehangir Garden, section II., stores and petty charges to Elphinstone Circle Garden, section II, stores and petty charges, to meet the cost of purchasing a new lawn mower and hose."

No. 12547. *Resolved* : "That as applied for by the Commissioner in his Memorandum, No. 25294, dated 31st ultimo, sanction be given to the transfer of Rs. 296-15-6 from savings in the Health Department Conservancy Branch, 10 Halalkore Branch, G. Rent, rent of extra chawl, to Conservancy Branch, 3 Disposal of Town Sweepings, construction of Silchar incinerator, to meet the cost of a chimney to be provided for the incinerator."

No. 12548. *Resolved* : "That as applied for by the Commissioner in his Memorandum, No. 25623, dated 4th instant, sanction be given to the transfer of Rs. 121-8-0 from savings in Conservancy Branch, 2 Labour, A scavengering, to same branch, section 4 repairs, roads to Tardeo flats, to meet the cost of the experiment which was made for easing the work of bullocks when drawing loads over the refuse deposits on Tardeo flats."

No. 12549. *Resolved* : "That, as applied for by the Commissioner in his Memorandum No. 25512, dated 2nd instant, sanction be given under section 28 (*a*) of the Municipal Act, to the payment of allowances, amounting to Rs. 783, to the polling officers and clerks, peons, &c., during the General Election, as per list submitted therewith."

No. 12550. *Resolved* : "That, as applied for by the Commissioner in his letter to the Secretary, No. 25502, dated 2nd instant, sanction be given to the acceptance of Mr. Hasan Ally Abdool Ally's tender, the

lowest of the three tenders received, for the supply of stationery and drawing materials, at schedule rates during 1895-96."

Considered letter No. 25148, dated 29th ultimo, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to report that a sum of Rs. 2,83,554 has been provided in the current year's Budget under head 10 Halalkhor Branch B. Labour. Out of this sum Rs. 2,42,060-11-5 have been spent up to the end of December last, leaving a balance of Rs. 41,493-4-7. The monthly amount required for the wages of halalkhors actually employed is Rs. 24,943, or for two months ending 28th February 1895, Rs. 49,886 are required. Deducting the amount on account of the probable absentees of halalkhors for two months, the Health Officer reports that he will require an additional grant of Rs. 8,000, as there are no savings under the Health Department Budget grants from which the excess can be met, I request the sanction of the Standing Committee and the Corporation to meet it from Surplus Cash Balance.

The state of the Surplus Cash Balance is as follows :—

Surplus as shown in the Budget estimates for 1895-96, inclusive of the amount reserved for the probable extra grants to the end of the current financial year				Rs. 2,19,075	0 0
Out of which expenditure (excluding temporary advances to be adjusted hereafter) has been sanctioned to the extent of	Rs. 1,61,836	14	9		
Expenditure recommended for sanction.	„ 40,051	5	0		
				2,01,888	3 9
Balance available				Rs. 17,186	12 3

I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved: "That letter No. 25148, dated 29th ultimo, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to an additional grant of Rs. 8,000 from Surplus Cash Balance to meet excess under 10, Halalkhor Branch, B. Labour, Health Department."

No. 12551.

Considered lettter No. 25415, dated 1st instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to forward copy of Chief Accountant's No. 4327 of 26th ultimo, and to request the approval of the Standing Committee and the Corporation to my applying to Government for sanction to the raising of a loan of Rs. 9 lakhs for the works provided in the Budget for 1895-96 under item No. 2 loans to be raised in 1895-96, at page 78 Loan Works Budget, making a total of Rs. 16,19,000, of which Rs. 10 lakhs are to be raised in the coming year.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 4327 OF 1894-95.

BOMBAY, *26th January* 1895.

TO THE MUNICIPAL COMMISSIONER.

SIR,—I have the honour to state that an application has yet to be made to Government for the raising of a loan of Rs. 7,19,000 for the new road from Wari Bandar Road to Gunpowder Road, Victoria Road extension and Burying ground for Mahomedans and Beni-Israel, as sanctioned in Corporation's Resolution No. 504, dated 12th April 1894. 2. It was your intention to include in the application, the loan required for the new works provided for in the Loan Works Budget for 1895-96 as soon as the Budget was passed by the Corporation. 3. The Budget has now been passed by the Corporation, but the necessary sanction to apply for a loan for the works included in it, has not been accorded by that body. 4. I am informed that plans and estimates for almost all the works have either been already submitted to you, or are ready for submission. 5. As it will take some time before the sanction of the Government of India is obtained to the raising of the required loans, and as a portion of the loans will have to be raised in the monsoons of 1895, may I request the favour of your obtaining the permission of the Standing Committee and the Corporation, as early as practicable, to apply to Government for sanction to the raising of a loan of Rs. 9 lakhs for the works, provided in the ensuing year's Loan Works Budget.—I have, &c.,

W. PEARSON, Acting Chief Accountant.

Resolved : "That letter No. 25415, dated 1st instant, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the Commissioner's applying to Government for the raising of a loan of Rs. 9 lakhs, at 4 per cent. for sewerage and other works provided for in the Budget Estimates for 1895-96."

No. 12552.

Considered letter No. 25147, dated 28th ultimo, from the Commissioner to the Secretary, as under :—

SIR,—In reference to the Corporation Resolution No. 10796, of the 3rd instant, I have the honour to report that the available savings were sufficient to meet the cost of extra carts up to the 20th instant. As the Garlick Incinerator has not been at work since the beginning of this month, and will not be fit for work until the middle of March next, on account of some repairs which are required to be executed, the refuse from A and B Wards which was burnt in the Incinerator is now required to be carted away to the flats. The Incinerator at Kamathipura, in which on an average, 100 cart-loads of refuse were daily burnt, is also not at work, as it requires repairs. Besides this, the Health Officer states that he is 67½ pairs of bullocks short of the authorized strength, and 25 pairs are worn out and incapacitated for further service, and are consequently required to be cast. Thus he is in all 92½ pairs of bullocks short. It is therefore proposed to employ 80 carts a day from the carting contractor from the 21st January to the 28th February 1895, at a total cost of Rs. 3,510. It is anticipated that up to the end of the year there will be a saving of Rs. 2,351-3-5 under the different Budget grants for feed of bullocks for the current year, but as this amount will not be sufficient to meet the whole expenditure, I request the sanction of the Standing Committee and the Corporation to meet it from the savings given above and from the Surplus Cash Balance to the extent of Rs. 1,158-12-7.

The state of the Surplus Cash Balance is as follows :—

Surplus as shown in the Budget estimates for 1895-96 inclusive of the amount reserved for the probable extra grants to the end of the current financial year	Rs. 2,19,075	0	0
Out of which expenditure, (excluding temporary advances to be adjusted hereafter) has been sanctioned to the extent of ...	„ 1,61,836	14	9
Expenditure recommended for sanction...	„ 48,051	5	0
	Rs. 2,09,888	3	9
Balance available ...	Rs. 9,186	12	3

I have, &c.,
H. A. ACWORTH, Commissioner.

Resolved : "That letter No. 25147, dated 28th ultimo, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the

No. 12553.

employment of eighty carts per day from the carting contractor for the use of the Health Department, from 21st January to 28th February instant, at a total cost of Rs. 3,510 debitable as under, Rs. 2,351-3-5 to savings in the different Health Department budget grants for feed of bullocks, and Rs. 1,158-12-7 to Surplus Cash Balance."

Resolved: "That the following be *recorded*:—Letter to the Secretary from the Commissioner, No. 25316, dated 31st ultimo, reporting that he has accepted the tender of Mr. Rahim Ibrahim Jamalain for the supply of wood for cremation purposes at Rs. 5 per khandy of 28 maunds."

No. 12554.

Resolved: "That the following be forwarded to the Corporation for information:—Memorandum No. 25296, dated 31st ultimo, from the Commissioner, forwarding for the information of the Standing Committee and Corporation, list of the tools and plant in charge of the various departments which hitherto appeared in the municipal accounts and which have been eliminated from those accounts under the new store rules sanctioned by the Standing Committee."

No. 12555.

It was agreed that the consideration of Memorandum No. 25198, dated 30th ultimo, from the Commissioner, forwarding report and estimate from the Executive Engineer, regarding the construction of market at Currey Road be postponed, and that the papers be circulated and brought on for discussion at a future meeting.

No. 12556.

Considered the following :—

BOMBAY, 30*th January* 1895.

THE Sub-Committee appointed by the Standing Committee on 25th July 1894, to consider the Draft Regulations framed by the Commissioner, under Section 406 of the Municipal Act, relating to Markets and Slaughter Houses, beg to forward herewith copy of the Regulations as amended by the Sub-Committee from which it will be seen that the title of the draft Regulations has been amended, and that the Sections have been re-numbered. Section No. 5 becoming No. 1, Section 7 becoming No. 2, Section 1 becoming No. 3, Section No. 2 becoming No. 4, Section No. 3 becoming No 5, Section No. 4 becoming No. 6 and Section No. 6 becoming No. 7. Several alterations which the Sub-Committee thought it necessary to make as bringing the draft regulations more strictly in accordance with the Act were made.

The Draft Regulations, as thus amended are submitted by the Committee with the recommendation that they be approved by the Standing Committee.

G. W. ROUGHTON.
JAVERILAL U. YAJNIK.
R. H. VINCENT.

DRAFT REGULATIONS (prepared by the Commissioner for the approval of the Standing Committee under Section 406 of the City of Bombay Municipal Act, 1888) for fixing the hours during which Markets and Slaughter-houses may be kept open, for preventing nuisances and obstructions in private Markets, and for keeping Private Markets in a cleanly and proper state and for removing filth and refuse therefrom, for requiring that Private Markets be properly ventilated and provided with a sufficient supply of water, and for requiring that passages be provided in Private Markets between the Stalls of sufficient width for the convenient use of the public.

Time for opening and closing Municipal Markets.

1. Municipal markets will be opened at 5 a.m. and closed at 9 p.m. daily.

Time for opening and closing private markets.

Private markets may be kept open for use between the same hours, but no private market shall under any circumstances be opened for use earlier than 5 a.m. or be kept open for use later than 9 p.m. without the previous special permission in writing of the Commissioner.

Time for keeping Bandora slaughter houses open for use.

2. The Municipal slaughter-houses will ordinarily be kept open for the slaughter of animals from 5-30 p. m. in the evening until 12 midnight. For special reasons or on occasions of emergency, the Commissioner may from time to time allow the said slaughter-houses to be kept open for the slaughter of animals during any other hours.

Licensees of private markets to keep such peons or ramosis as may be required.

3. Every person to whom a license has been or may be granted by the Commissioner, under section 403 of the Act, to keep open a private market, shall employ and keep on duty at such

market, during the hours the same is open to the public, so many peons or ramosis, as the Commissioner shall prescribe, for the purpose of maintaining order and preventing nuisances or obstruction in the market or in the approaches thereto.

Licensees of private market to enforce compliance by tenants with regulations.

4. Every person to whom a license has been or may be granted by the Commissioner, under section 403 of the Act, to keep open a private market, shall insist on and enforce compliance by every tenant or occupier of any shop, stall, godown or standing in such market, with the following regulations for preventing nuisances or obstruction in such market and in the approaches thereto, and for keeping such market in a cleanly and proper state, namely:—

(a) for preventing passages and approaches being blocked.

(*a*) A tenant or occupier of any shop, stall, godown or standing in such market shall not for any longer time or in any other manner than shall be reasonably necessary for the conveyance of any goods, provisions, or marketable commodities to or from such shop, stall, godown or standing, or any part of such market, place or deposit or cause or allow to be deposited in any passage, or place adjoining such shop, stall, godown or standing or elsewhere in such market, or in any of the immediate approaches thereto, any hamper, crate, basket, box, barrel or other receptacle for any goods brought into such market for the purpose of sale or of exposure for sale.

(b) for preventing projections beyond stalls, &c.

(*b*) A tenant or occupier of any shop, stall, godown or standing in such market shall not cause or allow any goods, provisions, marketable commodities or articles to be deposited or exposed for sale in or upon such shop, stall, godown or standing so that such goods, provisions, marketable commodities or articles or any part thereof shall project beyond the line of such shop, stall or godown or beyond the limits assigned to such standing, so as to obstruct the passage of any person or of any goods, provisions, marketable commodities or articles in or through the market or any part thereof.

(c) for keeping stalls, &c., in a cleanly condition and for preventing refuse or garbage from collecting.

(*c*) Every tenant and occupier of any shop, stall or godown in such market shall cause such shop, stall or godown to be kept in a cleanly condition, and shall allow no refuse or garbage to remain about it, but shall cause the same to be put into a tub, box or basket and to be carried to the proper receptacle.

Licensees of private markets to obtain water connection, &c.

5. Every person to whom a license has been or may be granted by the Commissioner, under section 403 of the Act, to keep open a private market shall cause

or procure to be laid into the premises a water-connection of not less than one inch in diameter from the municipal water main, and shall cause such connection and all fittings thereof to be kept at all times in proper order and efficient action so as to provide for use on the premises a sufficient supply of water for the purpose of thoroughly washing and cleansing the premises.

To cause filth, garbage, &c., to be promptly removed to receptacle or place for temporary deposit.

He shall cause all filth, garbage and refuse which may be produced or may accumulate in any part of such market to be promptly removed, in such a manner and with such precautions as not to create a nuisance in the process of removal, to such public receptacle, depot or place as may for the time being be provided or appointed by the Commissioner for the temporary deposit thereof.

To cause market to be swept and cleaned twice each day and washed down daily.

He shall cause such market to be thoroughly swept and cleaned to the satisfaction of the Commissioner each morning and evening, and to be washed down every evening.

He shall cause every stall or bench, on which articles of food or drink are kept or exposed for sale, to be thoroughly cleansed daily, and every board or place on which meet or fish is kept to be scraped.

Licensees of private markets to *comply with regulations for proper ventilation.*

6. Every person to whom a license has been or may be granted by the Commissioner to keep open a private market shall observe and comply with the following regulations for the proper ventilation of such market :—

(*a*) A clear open space of not less than 30 feet in width shall be maintained around the market.

(*b*) At least one entrance of not less than 10 feet in width shall be maintained in front of the market if the said market does not exceed 60 feet in length in front; if it exceeds that length, then at least two entrances, each of not less than 10 feet in width, shall be maintained.

(*c*) In all cases in which gates are provided to any entrance to the market such gates shall be constructed of open iron-work or open wood-work.

(*d*) The entrances shall be so placed as to secure a free circulation of air throughout the market.

(*e*) The walls or roof columns shall not be less than 20 feet in height from the floor of the market to the wall plate or tie bar, and no lofts or other similar structures shall be erected under the roof.

(*f*) The roofs shall have ridge ventilation throughout their length, and shall be fitted with movable louvre boards or shutters which can be closed in wet weather.

(*g*) In the space between each roof truss and under the projecting eaves or gutter way an opening shall be kept at the top of the wall for not less than half the length of the space and not less than 18 inches deep. This opening may be grated or covered with wire-netting to keep out birds.

(*h*) If the market has brick or masonry built walls, there shall be in every 10 feet of wall length at least one window of not less than 8 feet in height by 4 feet in width, and such windows shall be not less than 8 feet above the floor level.

(*i*) If the market is supported on pillars and has open sides fitted with shutters, such shutters shall be so arranged and fitted as not to obstruct ventilation.

Passages in market to be not less than 8 feet in width.

7. Passages or spaces not less than 8 feet in width shall be maintained between the rows of stalls or benches in each market.

No. 12557. *Resolved*: "That the report of the Sub-Committee regarding the draft Regulations for Markets and Slaughter Houses and Private Markets be approved and adopted. That under the terms of section 406 of the Municipal Act the Standing Committee approve of the said regulations."

No. 12558. It was agreed that report from the Water Engineer on the subject of the burst of a 48" pipe on the Tansa main at Kasheli, forwarded with the Commissioner's Memorandum No. 25604, dated 4th instanst, be circulated and brought on for consideration at a future meeting.

No. 12559. *Resolved*: "That sanction be given to the payment of Rs. 42-11-0, being the cost of advertising and 'crying' the sale of the ornamental dais and segmental desks, formerly placed in the Corporation Hall; the Commissioner agreeing that the charge be debited to the grant for discretional contingencies.

No. 12560. *Resolved*: "That the following be forwarded to the Commissioner for favour of remarks:—Resolution of the Corporation No. 12418, dated 31st January 1895, as under:—

"That the Standing Committee be requested to inform the Corporation whether any and what reply

was received by them to the reference contained in their Resolution No. 7020, dated 27th February 1889, on the question of the order in which sewerage operations should be proceeded with."

The following return was read and *recorded* :—

Return of fires at 303 Frere Road, Poona Street and Koliwada Worlee, forwarded with the Commissioner's Memorandum No. 25327, 31st ultimo, 1895*.

The following statement† was laid on the table :—

The Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 3rd February 1895.

Resolved : "That, as recommended by the Secretary, sanction be given to the appointment in his office of Shaik Abdul Shaik Peer Mahomed as peon on a salary commencing at Rs. 8 per mensem, from the 1st instant, on probation for 6 months, *vice* Shaik Kassam Shaik Ismail, resigned."

No. 12562.

BOMBAY, *13th February* 1895.

AT the meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L. M. ; COWASJEE HORMUSJEE, ESQ., G.G.M.C. ; THE HON'BLE MR. FAZULBHOY VISRAM, C.I.E. ; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, ESQ. ; K. M. SHROFF, ESQ. ; S. REBSCH, ESQ., ASSO. M.I.C.E. ; ACCACIO G. VIEGAS, ESQ., L.M. & S. ; R. H. VINCENT, ESQ., C.I.E. ; CAPT. W. P. WALSHE.

The SECRETARY.

The minutes of the meeting held on the 6th instant were signed.

The seal of the Corporation was affixed to deed of contract with Messrs. Walsh, Lovett and Co. for the supply of twenty ½-inch Siemen's meters for the Water Works Department.

Resolved : "That, as applied for by the Commissioner in his memorandum No. 26144, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 12796.

It was agreed that the consideration of the following be postponed until next week :—Letter No. 25637, dated 4th instant, from the Commissioner, requesting

* *See* Appendix C. † *See* Appendix B.

sanction to the payment of Rs. 100 per mensem as house rent to Mr. B. H. Hewett (who has been appointed Assistant Engineer, mechanical branch, from 1st May next) until the Chief of the Fire Brigade removes to the new Brigade quarters at Sankli Tank."

Resolved; "That, with reference to letter No. 25618, dated 4th instant, from the Commissioner to the Secretary, sanction be given to the existing rates for the supply of water by meter and for meter-hire, under sections 169, 170 and 276 of the Municipal Act, being continued during the year 1895-96.

No. 12798.

"(2) That the Committee approve of the charging of 12 annas per 1,000 gallons as hitherto to the following classes of premises :—(1) Bathing places ; (2) Bone crushing mills ; (3) Buildings in course of construction ; (4) Cattle markets ; (5) Chunam kilns ; (6) Cloth markets ; (7) Cotton and other presses ; (8) Dhobiwadas ; (9) Docks ; (10) Dockyards ; (11) Drinking fountains and troughs privately owned ; (12) Dye-works ; (13) Electric lighting stations ; (14) Fire mains ; (15) Flour mills ; (16) Gas works ; (17) Hotels ; (18) Ice factories ; (19) Iron foundries and workshops ; (20) Irrigation land ; (21) Printing presses ; (22) Private markets ; (23) Railways ; (24) Rope walks ; (25) Saw mills and timber yards ; (26) Shipping ; (27) Spinning and weaving mills of all kinds ; (28) Stables for horses or cattle other than milch cattle (except those attached to the residence of the occupier of the stable and only for his own animals) ; (29) Sweetmeat factories ; (30) Tanneries ; (31) Theatres ; (32) Thread factories ; (33) Tramways ; (34) Wool-cleaning factories.

"(3) That half the cost of the water supplied to the Carnac Depôt be debited to the Health Department and half to the Drainage Department."

Read letter No. 25615, dated 4th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to report that great inconvenience is experienced by the staff employed at the Assessment Department, E Ward office, at Sankli Tank, on account of the want of privy accommodation there. The Executive Engineer estimates the cost of erecting a latrine at Rs. 696 ; but as there is no pro-

vision in the Budget to meet the expenditure, I request the sanction of the Standing Committee and the Corporation to meet it out of Surplus Cash Balance.

The state of the Surplus Cash Balance is as follows:—

		Rs.	a.	p.
Surplus as shown in the Budget Estimates for 1895-96, inclusive of the amount reserved for the probable extra grants to the end of the current financial year.....		2,19,075	0	0
Out of which expenditure (excluding temporary advances to be adjusted hereafter) has been sanctioned to the extent of .....Rs.	1,61,836	14	9	
Expenditure recommended for sanction ..... „	50,860	1	7	
		2,12,697	0	4
Balance available...Rs.		6,377	15	8

I have, &c.,

H. A. ACWORTH, Commissioner.

No. 12799. *Resolved*: "That letter No. 25615, dated 4th instant, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the grant of Rs. 696, from Surplus Cash Balance, for the cost of constructing a latrine for E Ward office, Assessment Department, Sankli Tank."

No. 12800. *Resolved*: "That memorandum No. 26142 of this day's date, from the Commissioner, forwarding Government Resolution No. 263, Educational Department, dated 6th instant, regarding increased grant made by Government to the Corporation on account of primary education, be *recorded*, a copy of the resolution having been forwarded by Government to the President direct."

No. 12801.

That, in reply to his letter, dated 5th instant, on the subject of the drainage of his property No. 72, Currey Road, Mr. Janardhan Ransord be informed that the Corporation have only sanctioned the provision of house connections at Municipal cost in the First Drainage section, which does not include Currey Road.

Resolved: "That, with reference to letter, dated 8th instant, from Mr. Janardhan Runsord, regarding the drainage of his property, situate at No. 72, Currey Road, the Corporation be recommended to refer him to the Standing Committee's resolution of the 9th January last, as per margin.

"That applicant be informed that the Secretary reports that the reason why copy of that resolution was not delivered to applicant until the 8th instant was that he could not be found at the address given in Currey Road, and that the fact of his being employed in Messrs. Payne, Gilbert and Sayani's office was only ascertained on the 7th idem."

The following statement† was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 10th February 1895.

BOMBAY, 20*th February* 1895.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M. ; COWASJEE HORMUSJEE, ESQ., G.G.M.C. ; THE HON'BLE MR. FAZULBHOY VISRAM C.I.E ; HURKISONDAS NURROTUMDAS, ESQ. ; THE HON'BLE MR. JAVERILAL UMIASHANKER YAJNIK ; K. M. SHROFF, ESQ. ; S. REBSCH, ESQ., ASSO., M.I.C.E. ; ACCACIO G. VIEGAS, ESQ., L.M. & S. ; R. H. VINCENT, ESQ., C.I.E. ; CAPTAIN W. P. WALSHE.

H. A. ACWORTH, ESQ., I.C.S., Commissioner ; and the SECRETARY.

The minutes of the meeting held on the 13th instant were signed.

The seal of the Corporation was affixed to lease of Municipal ground let to Bisasor Bindraban, at Tardeo, for stacking hay, for one year.

The seal was affixed to deeds of contract (1) with Messrs. Tejoo Kaya & Co., for the supply of 3,000 brass of road-metal ; and (2) with Messrs. Heptulla Sheik Adam & Co., for the supply of 500 cases of kerosine-oil, at Rs. 5-1-3 per case. The seal was also affixed to deed of conveyance of a plot of ground at Connaught Road, belonging to the Municipality, and sold to Mr. Ardasir Meherban Irani.

The seal was affixed to the following debentures :—

1 consolidated debenture of the Bombay Municipal Sanitary Works Loan of 1885, Nos. 5272-5281 N.N., for Rs. 5,000 ; 1 do. do. Nos. 3416-3429 N.N., for Rs. 7,000 ; 1 do. do. Nos. 4964-4999 N.N., for Rs. 18,000 ; 1 do. do. Nos. 5140-5189 N.N., for Rs. 25,000 ; 1 attested duplicate debenture of the 35 Lakhs Various Sanitary

† See Appendix B.

Works Loan, No. 2019, for Rs. 500; 8 attested duplicate debentures of the Bombay Municipal Sanitary Works Loan of 1885, Nos. 250 N.N., 251 N.N., 253 N.N., 1706 N.N., 1707 N.N., 2035 N.N., 2861 N.N., and 3342 N.N., for Rs. 500 each. 22 attested duplicate debentures of Bombay Municipal (Drainage) Loan of 1878, Nos. 2282 and 2283, 2516 to 2518, 2533 and 2534, 2739 to 2741, 2745, 3104 to 3111, 3412, 3419 and 4904, for Rs. 500 each.

Resolved: "That, as applied for by the Commissioner in his memorandum No. 26853, dated this day, sanction be given to the cutting off of water connections, as per list submitted therewith."

No. 13014

Resolved: "That the following be recorded:—Letter No. 26198, dated 14th instant, to the Secretary from the Commissioner, reporting that he has authorized the Executive Engineer to purchase five hundred cases of kerosine-oil of Snowflake and White Rose brand 150° from Messrs. Heptula Sheik Adam & Co., at the rate of Rs. 5-1-3 per case. The amount to be debited to the grant for kerosine-oil lighting for 1895-96."

No. 13015.

Read letter No. 26203, dated 14th instant, from the Commissioner to the Secretary, as under:—

SIR,—I have the honour to report that alternative tenders for printing work from 1st March next were invited as under:—

Tenders for 1 year, } for printing on English paper and on
" " 3 years, } partly English and partly Indian-
" " 5 " } made paper.

Two tenders have been received—one from the *Times of India* and the other from the *Bombay Gazette*, which work out as under:—

English paper.	1 year's contract.	1 year on 3 years' contract.	1 year on 5 years' contract.
	Rs.	Rs.	Rs.
Times	40,231	35,202	32,688
Gazette	40,633	39,414	38,601
Difference	402	4,212	5,913

Partly English and partly Indian-made paper.	1 year's contract.	1 year on 3 years' contract.	1 year on 5 years' contract.
	Rs.	Rs.	Rs.
Times	37,705	32,992	30,635
Gazette	37,716	36,585	35,820
Difference	11	3,593	5,195

It will be observed from the statements given above that the tenders of the *Times of India* are lower than those of the *Bombay Gazette*, and the longer the period of the contract the lower the price of it by Rs. 7,543 and Rs. 2,514 per annum, respectively, for English paper, and by Rs. 7,070 and Rs. 2,357 per annum, respectively, for partly English and partly Indian-made paper.

I may, however, add that in making the calculations given above, I have taken the approximate number of pages for the Standing Committee and Corporation proceedings, the annual report, and such other books.

Under the circumstances, I request the sanction of the Standing Committee and the Corporation to the acceptance of the tender of the *Times of India* for a period of five years.

I have, &c.,

H. A. ACWORTH, Commissioner.

Proposed by Cowasjee Hormasjee, Esq., seconded by Hurkisondas Nurrotamdas, Esq.—

No. 13016. "That letter No. 26203, dated 14th instant, from the Commissioner, be forwarded to the Corporation, with the recommendation that sanction be given to the acceptance of the tender of the proprietors of the *Times of India*, for the performance of the printing work required by the Municipality, for a term of five years, from 1st March next, at schedule rates, and on paper partly English and partly Indian."

Carried.

It was agreed that the Corporation be asked, at their meeting to-morrow, to consider the acceptance of this tender as urgent business.

Resolved: "That, as applied for by the Commissioner in his memorandum No. 26470, dated 16th instant, sanction be given to the transfer of Rs. 25, from savings in the grant for the Joint Schools' Committee Establishment, contingencies, to same Department, Office Establishment, for cost of acting allowance payable during the absence of Mr. Dorabji Sorabji Ghivalla on privilege leave."

No. 13017.

Resolved: "That, as applied for by the Commissioner in his memorandum No. 26223, dated 14th instant, sanction be given to the transfer of Rs. 150 from savings in the grant for Elphinstone Circle Gardens, Section III B, Sand, Turf, &c., to the grant for Victoria Garden, Section III, Seeds and Plants, to meet excess on the latter head due to the fall in Exchange."

No. 13018.

Resolved: "That, as applied for by the Commissioner in his letter No. 26339, dated 15th instant, sanction be given to the acceptance of the offer of Messrs. Killick, Nixon & Co., for the supply of 500 tons of Powell's Duffryn Cardiff coal and 500 tons of Davison's West Hartley coal for the Love Grove Pumping Station at Rs. 19-8-0 and Rs. 18-4-0 per ton, respectively. The cost to be debited to the grant for coal, section 2, B. Maintenance of Love Grove Pumping Station Budget for 1895-96.

No. 13019.

"That, under the terms of section 72 (3) of the Municipal Act, the Standing Committee dispense with the invitation for tenders which would otherwise be necessary as the present arrangements for the purchase of coal have proved advantageous to the Municipality."

It was agreed that the following be circulated and brought on for consideration at a future meeting :— Letter No. 26281, dated 15th instant, from the Commissioner to the Secretary, forwarding estimates for works in connection with the improvements of the outlet towers at Vehar and Tulsi, for which a provision of Rs. 32,575 has been made in the budget for 1895-96. Requesting sanction to proceed with the work, pending the raising of the loan, the cost being met out of avail-

able loan and other balances, to be adjusted against the loan when raised.

Considered letter No. 26342, dated 15th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honor to report that tenders for the construction of the new school and market at Bhuleshwar have been invited and that in response five tenders have been received. They work out as follows :—

	Rs.	a.	p.
(1) Messrs. Bhasker Shivram and Dhondiba Hanmantrao Burde	1,26,828	8	11
(2) Messrs. Hormusji Jehangir & Co. ...	1,30,474	12	10
(3) Mr. Sayaji Nagooji	1,34,888	10	8
(4) Messrs. Venkoo Baloo & Co.	1,37,582	0	2
(5) Mr. Magon Cooverji	1,40,495	7	5

As the tender of Messrs. Bhasker Shivram and Dhondiba Hanmantrao Burde is the lowest, I request the sanction of the Standing Committee to its acceptance.

The total amount to which the sanction of the Standing Committee is solicited is as given below :—

Amount of the lowest tender ...	Rs. 1,26,828	8	11
Contingencies and Establishment as per estimate	„ 13,670	11	8
Total...	Rs. 1,40,499	4	7

This amount will be met from the sanctioned estimated amount of Rs. 1,50,378 for the work. No order to begin work will be given till the necessary deeds are executed between the Municipality and Government, but in order to save every moment of time we have invited tenders so as to be ready to commence work without delay when the deeds are executed. The delay that has taken place is most annoying, as we only have the temporary market at the Pinjrapol for 2 years, 7 months of which have already expired.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 13021.

Resolved : "That, as applied for by the Commissioner in his letter No. 26342, dated 15th instant, sanction be given to the acceptance of the tender of Messrs. Bhasker Shivram and Dhondiba Hanmantrao Burde, for the construction of the Bhuleshwur market and school at schedule rates, aggregating Rs. 1,26,828-8-11, *plus* contingencies and establishment Rs. 13,670-11-8, total Rs. 1,40,499-4-7, to be met from the sanctioned amount of Rs. 1,50,378 for the work."

Resolved: "That the following be *recorded*:—Letter
No. 13022. No. 26366, dated 16th instant, to the Secretary from the Commissioner, reporting that he has authorized the Chief Officer, Fire Brigade, to purchase a horse for Rs. 650, from Mr. Baldock, subject to veterinary examination, for use in the Fire Brigade Department. The cost to be debited to the grant for the purchase of horses, section III., Fire Brigade Budget for 1894-95."

Resolved: "That, as applied for by the Commissioner
No. 13023. in his letter to the Secretary, No. 26341, dated 15th instant, sanction be given, under Section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. Littlewood and Pallonjee for the work of covering the storage basin at the Bhandarwada Reservoir and constructing filters over it, whereby an advance of 50 per cent. may be made to them for the supply of sand for the filters as it is brought on to the works."

Resolved: "That the following be *recorded*:—Letter
No. 13024. No. 26086, dated 12th instant, to the Secretary from the Commissioner, reporting that he has authorized the Executive Engineer to purchase from Messrs. Richardson and Cruddas 9 hand-rollers for coolies, with the usual wrought-iron handles, 12 cwt. in weight, 2 feet long and 2 feet in diameter, at Rs. 67 per roller. The total cost, Rs. 603, to be debited to the Road Repair and maintenance grant for the current year."

Resolved: "That the following be *recorded*:—Letter
No. 13025. No. 26195, dated 15th instant, to the Secretary from the Commissioner, reporting that he has sanctioned the continuance of the lease for one year from 1st March next of the stable at Kamathipura 2nd Street, occupied by the Health Department for stabling bullocks of E Ward, and belonging to Mr. Pochaty bin Pochaya Lingal at Rs. 50 per mensem, exclusive of water and halalkhor taxes, with option to extend the lease for a further term of one year. Stating that provision has been made in the ensuing year's budget for the same."

No. 13026. *Resolved*: "That, as applied for by the Commissioner in his memorandum No. 26201, dated 14th instant, sanction be given to the payment of Rs. 40-10-4 to Surkia Dewjee, fireman, Steam Roller No. 17, being the full amount of his pay, at Rs. 15 per mensem, from 27th October 1894 to 17th January 1895, both days inclusive, during which period he was treated at the J. J. Hospital on account of injuries sustained by him while in the execution of his duty. The cost to be debited to the Road Repairs grant."

No. 13027. *Resolved*: "That, as applied for by the Commissioner in his letter to the Secretary, No. 26205, dated 14th instant, sanction be given (1) to the acceptance of the tender of Messrs. Amrita Babajee and Co., for constructing an open storm-water drain on the Dadur and Portuguese Church Roads at a cost of Rs. 3,473-3-0 ; (2) road repairs to be done by the Road Department, Rs. 323-4-0; and (3) establishment and contingencies Rs. 441-2-0 ; total Rs. 4,238. The cost to be met from the sum of Rs. 4,853 set apart for the work and included in the provision of Rs. 24,519 in the budget for 1893-94 for the construction of storm-water drains in different localities."

Considered letter No. 26343, dated 15th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honour to report that the old open main drain from the Bellasis pipe depôt to Love Grove sluice gates, requires cleaning. The main storm-water reservoir has of late years so silted up that the former space for storing storm-water is not now obtainable and therefore at high tides the storm-water of the city, instead of being stored in the reservoir as was previously done, has now to remain in drains in the city. It is, therefore, very necessary that the open main drain which passes through the reservoir should be kept as clean as possible.

The Executive Engineer estimates the cost of cleaning this drain at Rs. 2,469, and as there is no provision in the budget from which the expenditure can be met, I request the sanction of the Standing Committee and the Corporation to meet it from Surplus Cash Balance. It is of importance that the work should be done before the monsoon.

The state of the Surplus Cash Balance is as follows :—

Surplus as shown in the Budget Estimate for 1895-96, inclusive of the amount reserved for the probable extra grants to the end of the current financial year			Rs. 2,19,075	0 0
Out of which expenditure (excluding temporary advances to be adjusted hereafter) has been sanctioned to the extent of	Rs. 1,71,157	3 9		
Expenditure recommended for sanction	„ 42,235	12 7		
			2,13,393	0 4
Balance available...			5,681	15 8

I have, &c.,

H. A. ACWORTH, Commissioner.

No. 13028. *Resolved*: "That letter No. 26343, dated 15th instant, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the expenditure of Rs. 2,469, from Surplus Cash Balance, to meet the cost of cleaning the open main drain from the Bellasis Pipe Depôt to Love Grove sluice gates."

No. 13029. *Resolved*: "That the following be *recorded*:—Letter No. 26082, dated 12th instant, to the Secretary from the Commissioner, reporting that he has allowed Mr. Bhojabhoy Allarakhia, the hay contractor for next year, to continue in the occupation of the Municipal ground on the Flats, measuring 980 square yards, or thereabout, for stacking hay for one year, from 18th January 1895, on payment of Rs. 80 for the period."

No. 13030. *Resolved*: "That memorandum No. 26044, dated 11th instant, from the Commissioner, forwarding report from the Water Engineer, regarding the failure of a 48" pipe on the Pogaon Siphon of the Tansa Duct, be circulated and brought on for consideration at a future meeting."

Considered letter No. 25637, dated 4th instant, from the Commissioner to the Secretary, as under:—

SIR,—I have the honour to state that Mr. B. H. Hewett, Superintending Engineer, Love Grove Pumping Station, has been appointed Assistant Engineer, Mehanical Branch. This appointment has been provided for in the Budget for 1895-96 from the 1st May 1895. His residence will of course be in Grant House, but as it is at present in the occupation of the Chief Officer of the Fire Brigade, whom it would be inconvenient to move, as all the head-quarter appurtenances live and dead of the Brigade are there. I request the sanction of the Standing Committee and the Corporation to pay Mr. Hewett the house-rent of Rs. 100, which is at present saved on account of Mr. Nicholl's occupying Grant House until the Fire Brigade quarters at Sankli Tank are constructed, to enable Mr. Hewett to find quarters in the Fort.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved: "That letter No. 25637, dated 4th instant, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to an additional grant of Rs. 900, from Surplus Cash Balance, to provide house-rent, at Rs. 100 per mensem, from 1st May next, for Mr. B. H. Hewett, who has been appointed Assistant Engineer, mechanical branch, from that date, and is entitled to accommodation the Workshops bungalow at present occupied by the Chief of the Fire Brigade."

No. 13631.

Considered petition from Messrs. Dadabhoy Dhunjibhoy, S. S. Batliwalla and others, pointing out that the locality in which they reside, Supari Baug Road, is in great need of drainage, and that the absence of such drainage causes filthy water to accumulate, which at times emits intolerable smells and is an unbearable nuisance. Requesting that this locality may be included in the area which it is proposed to be drained.

Read the following:—

No. 22069 OF 1894-95.

BOMBAY, *6th February* 1895.

TO THE COMMISSIONER.

The portion of Suparibag Road from Lal-Bag, Chore Gally, is now under excavation for the laying of the sewer in the Parel gravitation district. The petitioners reside in the northern part of the Suparibag Road.

2. They are right in thinking that the sewerage system should be extended to their locality. This cannot, however, be done except under the sectional system.

3. The locality is in the Parel Sectional District, and the works therein have not yet been sanctioned.

4. The works to which the petitioners allude as being proposed are, the undersigned is informed by the Special Drainage Engineer, already in progress. They are those of the Parel gravitation district, which, on account of levels, could not be extended in Suparibag Road further north than Chore Gali.

M. C. MURZBAN, Executive Engineer.

No. 26123 OF 12-2-95.

Copy forwarded to the Municipal Secretary, with reference to Standing Committee Resolution No. 10143 of 12th December last.

H. A. ACWORTH, Commissioner.

Resolved: "That, in reply to their undated petition, No. 13032. Messrs. Dadabhoy Dhunjibhoy, S. S. Batliwalla and others be informed that the sewerage of their locality can only be provided on the sectional system, that is a system in which local pumping must be employed, which has not yet been sanctioned for Parel.

"The works now in progress to which applicants refer, are on the gravitation drainage system, which is not applicable to the drainage of the northern part of Suparibag Road."

Considered letter No. 23061, dated 9th January last, from the Commissioner to the Secretary, as under:—

SIR,—I have the honour to reply to your letter No. 9616 of 3rd ultimo, so far as it applies to Resolution No. 8903 of 15th November of the Corporation on the subject of the garden at Mahim. A report without No. or date on the subject from the Superintendent of Gardens, accompanied by estimates from the Executive Engineer and himself was submitted to the Acting Commissioner and sent on to the Corporation by him under his No. 16813 of 23rd October last, without any remarks. This has now come back to me for the remarks which ought to have accompanied it at the time it was sent on.

2. The area of the garden was originally 6 acres 1,273 square yards and has been leased from Government at a nominal rent on condition of its being reclaimed for a public garden; 506 square yards have, however, been since taken for a Fire Brigade Station and are held on a different tenure, so that the area of ground appertaining to the garden proper is now 6 acres 767 square yards. Of this area 6,160 square yards have been reclaimed and laid out as a garden. The rest is being gradually reclaimed by the deposit of katchra.

3. The Superintendent enumerates the defects of the garden in his 6th para., and submits estimates for the following improvements :—

Filling and levelling	Rs,	9,405
Fountain	„	1,079
Railing	„	6,563
Drain	„	2,807
Metalling	„	900
Turfing and planting	„	1,000
Laying Water-pipes	„	500
	Rs.	22,254

4. I am averse to incurring all this expenditure. The garden (I refer to the part already laid out and in good order) is hardly ever used, nor, having regard to the condition of the neighbourhood, viz., a thin popalation, a splendid sea beach and unlimited areas of palm groves is it at all likely ever to be extensively used. I would allow reclamation to continue on the present lines, viz., by filling with katchra and sand with the addition perhaps in future budgets of a small annual sum (say Rs. 1,000) for red earth, so that the level of the laid out portion may be gradually raised and the newly reclaimed part more rapidly converted into horticulturable ground than it can be with the addition of sea sand alone. The one item of present expenditure which I do advocate is the drain. This ought to be undertaken to preclude the possibility of flooding, and it will serve incidentally the useful purpose of discharging the sullage (not a large quantity) of the Fire Brigade station. It will cost Rs. 2,807, which I advise sanction to from Surplus Cash Balance.

5. The state of the Surplus Cash Balance is as follows :—

6. Surplus as shown in the Budget Estimates for 1895-96, inclusive of the amount reserved for the probable extra grant sto the end of the current financial year	Rs. 2,19,075	0	0
Out of which expenditure (excluding temporary advances to be adjusted hereafter) has been sanctioned to the extent of.....	Rs. 1,54,435	10	9
Expenditure recommended for sanction	„ 34,760	4	0
	Rs. 1,89,195	149	
Balance available	Rs. 29,879	1	3

I have &c.,

H. A. ACWORTH, Commissioner.

No. 13033. *Resolved* : "That letter No. 23061, dated 9th ultimo, from the Commissioner to the Secretary, be forwarded to the Corporation, with reference to their resolution No. 8903, dated 15th November last, for information.

2. "That the Corporation be recommended to sanction the expenditure of Rs. 2,807 from Surplus Cash Balance to meet the cost of constructing a rubble masonry drain for the SirCowasjee Jehangir Gardens, Mahim, 2′ × 2′ with cast iron oblong manhole over it, laying 6″ stoneware pipe line and fixing 2½″ cast iron pipe for ventilating."

No. 13034. *Resolved* : "That memorandum No. 26425, dated 16th instant, from the Commissioner to the Secretary, as under, be *recorded*."

Statement showing Set-backs of Properties sanctioned by the Municipal Commissioner under Section 298 *of the Municipal Act during the month of January* 1895.

Serial No.	Ward.	Property. No.	Locality.	Name of the person called upon to set-back the property.	No. of square yards of land.
1	C	...	Junction of Kalbadevi Road and Lohar Street	Mr. Chunilal Panalal	42·54 70·17
2	B	88-94	Pydhonee Street	„ Abdulla Haji Ahmed Khandwani...	4·86
3	E	...	Suklaji Kamuathipura 9th Street.	„ Maganlal Purbhoodas ...	3·70
4	B	...	Jakeria Musjid Street	Bai Havabai, widow of Alana Moosa	3·41
5	C	372	Kalbadevi Road	Mr. Nanabhai Anupram	6·67

No. 22539 OF 1894-95. *13th February* 1895.

Submitted to the Municipal Commissioner for information, with reference to his No. 10571 of 6th August 1894.

M. C. MURZBAN, Executive Engineer.

No. 26425 OF 16th February 1895.

Forwarded to the Standing Committee for information.

H. A. ACWORTH, Commissioner.

Considered the following :—

No. 36457 OF 1894-95.

BOMBAY, *8th February* 1895.

TO THE MUNICIPAL COMMISSIONER.

SIR,—I have the honor to forward the following analysis of Tulsi, Vehar and Tansa waters with some interesting comments from the Water Engineer, on the quality of the Tulsi Water from Nos. 1, 2, 3, and 4 filters, in the Malabar Hill Reservoir. It is obvious that the water delivered from Tulsi is not as pure as it should be. The best sample of the four is from No. 3 filter, but even that sample is about 16 per cent. more impure than it should be. The cause is one that has been well recognized—it is this that too much water is allowed to flow through the filters, more than the filtering material can purify. The remedy is either to have more filtering area or not to pass more water through the filters than the filters can be expected to fairly purify. Either one or the other remedy should be promptly adopted, for in the interests of public health the filtered Tulsi water should not be more impure than is represented by the organic matter in the filtered Vehar water. What should be kept in view and if possible accomplished is to deliver a water, the Albuminoid Ammonia in the analysis of which should not exceed ·10 parts per million. The Tulsi water from the slimy organic matter in it is difficult to filter, and unless that there is a very large filtering area under very perfect control and equal conditions of exposure, unequal results can only, as we see now, be expected.

Subject. Analysis of Tulsi, Vehar and Tansa Water.

Unfiltered Tulsi water taken from the inlet well of the Malabar Hill Reservoir, at 2 *p. m., on* 30*th January* 1895.

	Parts per million.
Free Ammonia	·02
Albuminoid Ammonia	·17

Filtered Tulsi water taken from the water fall in No. 2*nd vault below No.* 1 *Filter, Malabar Hill Reservoir, on* 30*th January* 1895.

	Parts per million.
Free Ammonia	·02
Albuminoid Ammonia	·16

Filtered Tulsi water taken from the water fall in No. 5*th vault below No.* 2 *filter, Malabar Hill Reservoir, on the* 30*th January* 1895.

	Parts per million.
Free Ammonia	·015
Albuminoid Ammonia	·14

Filtered Tulsi water taken from the water fall in No. 8*th vault below No.* 3 *filter, Malabar Hill Reservoir, on* 30*th January* 1895.

	Parts per million.
Free Ammonia	·01
Albuminoid Ammonia	·12

Filtered Tulsi water taken from the water fall in No. 11th vault below No. 4 filter, Malabar Hill Reservoir, on 30th January 1895.

	Parts per million.
Free Ammonia	·005
Albuminoid Ammonia	·13

Unfiltered Vehar water taken from inlet channel of the Bhandarwada Reservoir, on 31st January 1895.

	Parts per million.
Free Ammonia	·02
Albuminoid Ammonia	·18

Filtered Vehar water taken from filter channel of the Bhandarwada Reservoir, on 31st January 1895.

	Parts per million.
Free Ammonia	·015
Albuminoid Ammonia	·10

Sample of Tansa water from the strained water basin at Ghatcooper Siphon head, on 3rd February 1895.

	Parts per million.
Free Ammonia	·015
Albuminoid Ammonia	·11

I have, &c.,

T. S. WEIR, Health Officer.

Extract of letter No. $\frac{W.}{8272}$ *of 6th February* 1895 *from the Water Engineer.*

"I have the honor in thanking you for your letter No. 35983 "of the 4th instant, to state that the variations in the quality of "filtered Tulsi water from the Malabar Hill Reservoir and the "want of high efficiency are due to the defects in the filters, "proposals for the remedying of which have been for some time "under the consideration of the Committee of the Corporation.

"2. You will remember that whilst you were Acting Com- "missioner, you directed that the Tulsi water supply should be "reduced, so as to admit of the most perfect filtration which the "area of the sand filters would admit of. In acknowledging the "receipt of this direction I noted :—

> "The supply will be curtailed accordingly, but until the re- "gulating gates are fixed, and the head is regulated "and the other improvements referred to in the "report to the Water Committee are carried out, the "effluent from the Malabar Hill Reservoir Filters "will be below the usual standard from good and "properly worked sand filters."

"3. The Executive Engineer in forwarding this, endorsed as follows :—

> "The undersigned is also of opinion that until the regulating "gates are fixed the sand in the filters is properly "washed and arrangements are provided in the filter

"beds to fill them from below, every time before "starting the filtration, the full effect of the filter "cannot be obtained. For effective filtration it is "necessary that the water should be filtered at a "uniform rate, whatever that rate may be."

"4. Until the defects above referred to are remedied, we "should not be able to efficiently filter the Tulsi water, because "although we may limit the quantity of water passing through "the filter we have no means of securing that each unit of area "of sand will perform its unit of work, and as we have no means "ordinarily of seeing the water after filtration, we cannot tell "what any particular filter is doing. I was only able to get "these samples, because the reservoir was almost empty by the "Tansa supply being stopped from a burst pipe. There is no "doubt that practically some portions of the filters do not do "their share of work, whereas some portions do more, and the "consequence is a large residue of albuminoid ammonia, and "the appearance of the water is not so good as it ought to be. "The albuminoid ammonia in the Vehar water, both filtered "and unfiltered, is in this month higher than usual."

No. 26067 OF 1894-95.

BOMBAY, 12*th February* 1895.

TO THE MUNICIPAL SECRETARY.

Forwarded to the Standing Committee for information. What the Health Officer urges is, ought to be, self-evident and the Commissioner is tired of insisting on the obvious fact that the filter area at Malabar Hill requires to be extended. If the people supplied from the reservoir were to address Government, the probability is that Government would insist on this being done; and the Commissioner cannot believe that they will much longer put up with the intolerable delay in disposing of the question. The Standing Committee have long ago recommended the extension of the filter beds.

H. A. ACWORTH, Commissioner.

Proposed by A. G. Viegas, Esq., seconded by S. Rebsch, Esq.—

No. 13035. "That Memorandum No. 26067, dated 12th instant, from the Commissioner, be recorded:—That the attention of the Corporation be drawn to the advisability of a prompt submission of the report of the Committee appointed by the Corporation to enquire into the question of water supply."

Carried.

Considered letter No. 26640, dated 18th instant, from the Commissioner to the Secretary, as under :—

SIR,—I have the honor to report that a proposal was submitted to the Executive Engineer by Messrs. Cowasji Bezanji Setna, Sorabji Rustomji Subedar and Sorabji Cursetji Sett to rebuild entirely the premises at Church Gate Street coloured yellow on the accompanying tracing. They were informed that a set-back was required, *viz.*, 3 feet towards the east and 3'-6" towards the west but as the buildings on either side are not set-back, Messrs. Thakordas Dharamsi and Cama on behalf of Messrs. Cowasji Bezonji Setna and others, have requested me to purchase the ground covered by the set-back and to lease it to their clients for a period of three years, the lease being renewed from time to time until the houses on either side are set-back. As there is no advantage in taking the set-back now, I request the sanction of the Standing Committee to lease the ground on the following conditions :—(1) that the land required for the improvement of the street admeasuring 8·67 square yards or thereabout shall be sold to the Municipality at the present market value, *viz.*, Rs. 100 per square yard minus the capitalized amount of ground rent, if any, payable either to Government or the Fazindar at 25 years purchase. (2) That the Municipality shall lease the said set-back land at an annual rent to be paid in advance by the lessees to the Municipality, calculated at 6 per cent. on the total amount that may be paid by the Municipality for the absolute purchase of the said land. (3) That the lease shall be for a period of three years, being renewed from time to time until the two houses one on the east and the other on the west of the premises in question are set-back. (4) That the cost of stamping and registering, &c., the agreement and the agreements to be renewed from time to time shall be borne by the lessees. (5) That when the two houses one on the east and the other on the west of the premises are set-back, the lessees shall remove the superstructure standing on the set-back land and make over the land to the Municipality clear of all encumbrances.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 13036.

Resolved : " That as applied for by the Commissioner in his letter to the Secretary, No. 26640, dated 18th instant, sanction be given to Messrs. Cowasjee Bejanji Setna, Sorabji Rustomji Subedar and Sorabji Cursetji Sett being allowed to retain on the following conditions the works to be executed by them to their premises within the regular line of the street at their house at Church Gate Street, *viz.* (a) That the land required from them for the street improvement admeasuring 8·67 square yards, or there-

about, shown in red hatched lines on yellow colour on the plan marked "A" dated this day and filed in "supplement to minute books," be sold to the Municipality, at present market value, that is Rs. 100 per square yard, *minus* the capitalized amount of ground rent, if any, payable either to Government or the Fazindar as the case may be, calculated at 25 years purchase. (b) That the Municipality lease the 8·67 square yards to Messrs. Cowasji Bejanji Setna, Sorabji Rustomji Subedar and Sorabji Cursetji Sett for the period of three years at an annual rental to be paid by them to the Municipality in advance calculated at 6 per cent. on the total amount paid to them by the Municipality for the absolute purchase of the land, the said lease being renewable on the demand of either party and the said rent being paid by the lessees until such time as the house on the east side, and the house on the west side of the property in question can be set-back. (c) That the lessees pay the cost of stamping and registering the agreement and of stamping and executing the renewed agreements from time to time. (d) That when the two houses one on the east and the other on the west side of the said property can be set-back, the lessees shall remove the superstructure standing on the said 8·67 square yards of land within the regular line of the street, and make over the said land to the Municipality clear of all encumbrances, and in the event of their not doing so, the Municipality to be at liberty to remove the said superstructure without compensation and to take possession of the land."

Considered petitions dated 30th November and 1st December 1894 from Messrs. Nagu Dharma Patel, Shaik Saleman bin Shaik Ibrahim and others, inhabitants of Second Coli Wada Lane, Colaba, complaining of the proposal to construct a night-soil depot near the south end of Thomas St., Colaba, which depot they contend will cause a great deal of nuisance as the locality is thickly populated; also pointing out that the proposed site of the depot is immediately behind the Hindu Temple, known as the Khanderao Temple which is frequented by about 200 fishmongers every day.

Adding that the emptying of the cesspool carts at the depot would poison the atmosphere of the locality. Requesting that the depot may not be constructed on the proposed site but that either the depot or a drain be built at the back of the Colaba Causeway and that such drain be connected with the drain of the Tramway Stables. If the depot is constructed as proposed, the continual passing and repassing of the cesspool carts would interrupt the devotions of those frequenting the temple thereat.

Considered also the following :—

99 THOMAS ROAD, LOWER COLABA,
17th December 1894.

To BARROW, Esq.,
Clerk of the Bombay Municipal Corporation.

RESPECTED SIR,—We have on the 3rd December placed in your hand two different petitions by ourselves and others, to be placed before the earliest meeting of the Standing Committee to prevent the erection of cesspool water depot from European houses situated on the Colaba Causeway to be built near our doors. At our request, some members of the Corporation, Mr. Roughton, Mr. Shroff, &c., have come and actually seen the place; and the work is being surreptitiously carried on at night and not in the day. Therefore we beseech you most earnestly not to delay placing our petitions before the Standing Committee and please to be good enough to do so on the next meeting of the Standing Committee on the 19th December or at the earliest convenient opportunity, otherwise owing to the Christmas holiday and the members leaving the town, the petition would not be read, our interest would be greatly jeopardized.—Yours, &c.

SHAIK SULEMAN, [and others].

No. 37291 OF 1894-95.

BOMBAY, *15th February* 1895.

TO THE MUNICIPAL COMMISSIONER.

The petitions dated the 30th November, 1st December and 17th December last, all relate to the same subject. In consequence of the action of the B. B. & C. I. Railway Co., in 1893 regarding the emptying of cesspool matter and night-soil into a public drain which ran through their property at Colaba, an agreement was entered into between the Municipality and the Railway Company, the terms being sanctioned by the Corporation on the 20th July 1893 (Corporation Resolution No. 3976). By this agreement the Municipality rent

from the Railway Company, a plot of ground which has been fenced in and upon which the night-soil carts are stationed and loaded. As the ground within the enclosure was only soft earth, the turning and movement of the heavy carts very soon cut it up and it became necessary to have it paved. During the carrying out of the work the carts had to be moved to the entrance of the enclosure with the result that the work of loading was brought into prominence. The placing of the carts was only temporary and was unavoidable, because no other position was available. The owner of the house near which the carts were placed, Mr. Jaffer Meeakhan applied for an injunction to restrain the Municipality. An injunction was granted but after hearing Counsel for the Municipality the rule was discharged. The work of paving the depot was finished at the beginning of January, and the carts were put back in the former position. Many of the statements in these petitions are unfounded and on the whole are grossly exaggerated. Since the arrangement with the Railway, no cesspool carts have been emptied at the depot. They have been emptied at a place in Thomas Street immediately adjoining the new Colaba Market. When this market is ready which I understand, it will be on the 1st of May, this emptying place, must be closed and the cesspool matter carted to Carnac-Bridge Depot. This is another phase of the question, but I need not enter into further detail. Since the arrangement with the Railway Company, the number of carts which the Municipality is allowed to pass on to the Railway land was not to be more than 8 a day and this number has not been exceeded. Before the arrangement the number of carts was much more. I may mention that cesspool carts were emptied at the place belonging to the Railway Company and now enclosed for years past. It is no new thing but the number of carts increased with new buildings. The whole of the houses at the Colaba Causeway occupied by Europeans, Parsis and others are drained by means of cesspools and many other places in Colaba have also cesspools which had to be emptied. It will be noticed that the petitioners make a strong grievance of the fact that the cesspool water comes from houses at Colaba Causeway occupied by Europeans. The fears of the petitioners may be set at rest.

The Municipality cannot in the face of its agreement with the Railway Co. empty cesspool carts at the depot within Railway limits and the Causeway houses now drain into a new open channel at the back of the buildings which discharges into the Harbour. I would draw the attention to the fact that in the petition dated the 1st December there are 3½ pages of signatures in vernacular all written evidently by one person.

T. S. WEIR, Health Officer.

No 26659 OF 18*th February* 1895

Copy forwarded to the Municipal Secretary for the information of the Standing Committee with reference to their Resolutions Nos. $\frac{10142}{12\text{-}12\text{-}94}$ and $\frac{10519}{4\text{-}1\text{-}95}$

H. A. ACWORTH, Commissioner.

No. 13037.

Resolved: "That in reply to their petitions dated 30th November and 1st December last, and letter dated 17th idem, Messrs. Nagu Dharma Patel, Shaik Sulleman bin Shaik Ebrahim and orthers be informed in accordance with the terms of the Health Officer's memorandum to the Commissioner No. 37291 dated 15th instant."

The following return was read and *recorded*:—

Return of fires at Narayan Dabulkar Road, Malabar Hill, Koliwada Worli and Girgam Road, forwarded with the Commissioner's Memorandum No. 25917, dated 9th instant, 1895*.

The following statement† was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 10th February 1895.

Considered the following :—

BOMBAY, 20*th February* 1895.

TO THE MUNICIPAL SECRETARY.

SIR,—Under instructions on behalf of our client, Mr. Hajee Moosa Usman, we have to address this letter to you, with a request that you will be good enough to lay the same before the Corporation at their next meeting.

The Corporation recently acquired a house in Barber Lane, Fort, from Mr. Dadabhoy Nowroji Davar for purposes of street improvement. A portion of the said property is required for widening the said lane and the remainder is available for sale. The said house so purchased by the Municipality adjoins a house owned by Mr. Nadirsha H. Sukhia, and some time ago he made an offer for the purchase of the surplus land and materials of the house for the sum of Rs. 4,446, and the Corporation on the 6th day of December last passed a resolution bearing No. 9896, sanctioning the sale to Mr. Sukhia at the said price.

Our client understands that Mr. Sukhia subsequently raised certain difficulty and the matter still remains in abeyance. Our client on the 29th day of January, through his attornies, wrote

* *See* Appendix C. † *See* Appendix B.

to the Commissioner offering to pay Rs. 4,800 for the said surplus land and materials, *viz.*, Rs. 354 more than the amount formerly offered. In reply he was informed by the Commissioner that the sale had already been made. So far as our client's information goes the gentleman who had at one time expressed his willingness to buy the surplus land and materials, had done nothing further. He has not finally confirmed his offer nor has he paid any deposit and no agreement has been entered into. On the contrary he has raised certain questions and asked for some concession. Our client is prepared to take up the said premises on the same terms and conditions in which it was proposed to sell them to Mr. Sukhia, and our client is willing to take upon himself any risk or obligation which may exist in reference to the party wall between the house in question and Mr. Sukhia's house. So far as the Corporation are concerned they will have no risk or liability. He is moreover willing to pay the usual fee for projecting a small gallery if he is allowed to do so. The Corporation will thus observe that by accepting our client's offer the Municipality will be benefitted by the difference between our client's offer and the former offer; and he hopes that in the interest of the ratepayers the Corporation will be good enough to take our client's offer into favourable consideration and sanction the sale of the property to our client, who will at once take a conveyance and pay the purchase money.

Our client thinks that as the Corporation have passed a resolution sanctioning the sale of the said premises as stated above, the Commissioner may consider himself bound to give effect to it and not entertain any other offer though it may be higher, until the said resolution is altered. Our client has therefore instructed us to bring this matter before the Corporation, so that on a reconsideration of the case, they may be pleased to vary their original resolution and accord sanction to the sale to our client.—We have, &c.,

EDGELOW & GULABCHAND.

No. 13039.

Resolved : "That, with reference to letter to the Secretary, dated 20th instant, from Messrs. Edgelow & Gulabchand on behalf of their client Hadji Moosa Usman, regarding the surplus land at Barber Lane, the Corporation be informed that in the opinion of the Standing Committee the applicants should be informed that the question of the sale of the land in question cannot be re-opened."

Considered letter No. 26764, dated 19th instant, from the Commissioner to the Secretary, as under:—

SIR,—In reference to the Standing Committee Resolution No. 12527 of the 21st February 1894, I have the honor to report that Mr. Rahimanbhai Hoosenbhai, the present holder of the scales at the Arthur Crawford Markets, has applied to me for an extension of his tennure for one year from the 1st April next on the same terms as the present lease is granted, *viz.*, Rs. 4,100 for the year. The Superintendent of Markets reports that there has not been a single complaint during the year against this man and that he is strongly opposed to the scale being put up to auction, as it will be productive of endless trouble, as not a single individual amongst the dealers with the exception of Mr. Rahimanbhai can afford to lease the scales. If the scales were put up to auction the dealers would form a company and purchase the right in the name of one individual, which would not be desirable, as within a few days of purchase, they would begin to fight amongst themselves, and thus give great trouble to the Municipality as past experience has shown. Under the circumstances he recommends that Mr. Rahimanbhai may be allowed to continue the farm for another year for Rs. 4,100. For the reasons mentioned and which I know to be sound, I entirely concur with the Superintendent of Markets, and request the sanction of the Standing Committee to lease the scales accordingly.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved: "That, as applied for by the Commissioner in his letter to the Secretary, No. 2676, dated 19th instant, the Committee approve of the leasing of the Municipal scales, Arthur Crawford Market, to Mr. Rehmanbhai Hoosenbhai for Rs. 4,100 for the period of one year from 1st April next."

No. 13040.

BOMBAY, 27*th February* 1895.

AT the meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman*.

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM C.I.E.; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, ESQ.; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPTAIN W. P. WALSHE;

H. A. ACWORTH, ESQ., I.C.S., Commissioner; and the SECRETARY.

The minutes of the meeting held on the 20th instant were signed.

Resolved :. "That, as applied for by the Commissioner in his memorandum No. 27117, dated 25th instant, sanction be given, under section 351 (2) of the Municipal Act, to the removal of the following structure built without permission :—

No. 13286.

Name of owner.	Where.
Mr. Daraji Gungajee	Work executed at his premises, 41 B Dhuswadi."

It was agreed that the consideration of memorandum No. 27118, dated 25th instant, from the Commissioner, asking sanction to the demolition of sheds at Colaba Causeway, be postponed until next week, for the purpose of information being received from the Commissioner as to whether the manager for Messrs. Breul was the proper person on whom the notice for demolition should have been served.

Resolved : "That, as applied for by the Commissioner in his memorandum No. 27346, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 13287.

Resolved : "That, as applied for by the Commissioner in his memorandum No. 26979, dated 21st instant, and subject to the approval of the Corporation, under section 133 (2) of the Municipal Act, sanction be given to the transfer of Rs. 800, from savings in the grant for Conservancy Branch II. Labour B. surface drain cleaning to markets and slaughter-houses lighting (other markets) to meet excess on the latter head on account of insufficient budget provision."

No. 13288.

Resolved : "That, as applied for by the Commissioner in his memorandum No. 27127, dated 25th instant, sanction be given to the transfer of Rs. 250, from saving in the grant for markets and slaughter-houses VI. meat carriage (feed of bullocks) to same department, section VI., repairs to meat vans to meet the cost of removing wheels of the seven vans made in 1892."

No. 13289.

Resolved : "That, as applied for by the Commissioner in his letter to the Secretary, No. 27084, dated 23rd instant, sanction be given to

No. 13290.

the acceptance of Messrs. Amrita Babaji's tender, the lower of the two tenders received, for the supply of earth (1) for covering cutchra deposits on the Flats; (2) for use elsewhere at Rs. 2-9-0 per brass, for one year, from 1st March next."

Resolved: "That, as applied for by the Commissioner in his letter to the Secretary, No. 13291. No. 26758, dated 19th instant, sanction be given, under section 69(*e*) of the Municipal Act, to the variation of the contract with Messrs. Mistri, Bhedwar, Wachagandi and Company, for the construction of ejector stations, engine-house, &c., at Colaba, whereby the contract period for the completion of the works shall be extended from 31st December 1894 to 1st May 1895, on the following conditions :—

(1) "That 1st May 1895 shall be taken as the date for the completion of the whole work, but that the contractors shall proceed with and promptly complete any portion or portions of the work which the Special Drainage Engineer from time to time may consider it necessary to finish by any particular date that he may fix. (2) That the contractors shall consider themselves bound to undertake and promptly finish, without demur, any work which the Special Drainage Engineer may direct them to carry out in or in the neighbourhood of the ejector stations or compressor station, including excavation for the pipes to be laid from the sea to the sea-water tank and from the latter to the boiler-house, such work being paid for at the rate of Rs. 5-8 per brass, all other work and excavation being paid for at scheduled rates. (3) That the contractors shall pump out the ejector stations and keep them dry without any charge whenever the Special Drainage Engineer may require them to do so for the purposes not only of their own work, but also of the machinery or other work in or in connection with the ejector stations. (4) That the contractors shall hold themselves responsible for making the ejector stations watertight, slight sweating only excepted. (5) That the contractors shall not receive any allowance from the Corporation on account of import duty for materials imported since 31st December last."

Resolved : "That the consideration of the Commissioner's letter to the Secretary, No. 26281, dated 15th instant, regarding the improvement of the outlet towers at Vehar and Tulsi lakes, be postponed until the next meeting to allow of the further circulation of the papers forwarded therewith."

13292.

Considered the following :—

No. 23988 OF 1894-95.

BOMBAY, 16*th January* 1895.

TO THE MUNICIPAL SECRETARY.

Details of expenditure on works costing less than Rs. 100 each would take a long time to compile, and if laid before the Standing Committee and Corporation, would be too voluminous for examination, but I send the diaries for seven months of the Superintendent of maintenance, a glance at which will give an idea of the work which goes on. A schedule of articles issued is attached.

A statement of works for seven months, costing over Rs. 100, has been put together and is sent herewith. The item of painting at Malabar Hill was undertaken at my desire. The woodwork had not been painted for many years, and could not be left unpainted with safety.

The total of the items comprised in the statement attached to the Water Engineer's No. 7286 of 3rd instant, is Rs. 13,368. It is made up for the first seven months of the year

The expenditure for those seven months was :—

Tools and Plant	Rs	5,243
Reserve stock	„	19,940
Meters	„	4,930
Total	Rs.	30,113

On the basis of this expenditure the following sums are required for the remainder of the year :—

Tools and plant and reserve stock	Rs.	18,000
Meters	„	3,500
Kashele Bridge	„	1,750
Total	Rs.	23,250

Deducing from this the balance of 9887 a further grant of Rs. 13,363, say Rs. 14,000, is required. I wholly dissent from the Executive Engineer's opinion that the painting of the Kashele Bridge should be deferred to save the sum of Rs. 1,750. The

bridge wants painting, and if not painted, the iron work will corrode and deteriorate. It would be very false economy to sacrifice the girders and piers to save the cost of a coat of paint.

I may conclude by again pointing out to the Standing Committee and Corporation that, as the Executive Engineer remarks, the true excess is Rs. 5,570, as the charge on account of meters besides being a novel one, entitled by the new store rules, is remunerative the issue of meters yielding a revenue.

H. A. ACWORTH, Commissioner.

Considered letter No. 19922, dated 9th January 1895, to the Commissioner, as under :—

SIR,—In continuation of this office No. 1843, dated the 8th ultimo, I have the honour to forward herewith the Water Engineer's No. 7286, dated 3rd instant, with a statement of the cost of materials used on works exceeding Rs. 100 debited to the Water Works Materials grant from March to September last.

2. The total anticipated excess is Rs. 14,000, of which the amount for meters, which did not form part of the grant when it was made, is ... ...Rs. 8,430

Balance..Rs. 5,570

3. Among the list of works, there is one large item which could have been deferred without impairing the efficiency of the work, *viz.*, the painting of the Malabar Hill Reservoir settling basin costing Rs. 1,352-5-0.

Another item, *viz.*, the painting of the bridge No. 2 at Kasheli, for which Rs. 1,750 are included in the application for the additional grant of Rs. 14,000, has, I understand, not yet been taken in hand, and may be postponed if the Standing Committee are not disposed to grant the necessary funds for it.—I have, &c.,

M. C. MURZBAN, Executive Engineer.

Resolved : "That letter No. 28894,* dated 10th December 1894, and memorandum No. 23988, dated 16th January 1895, from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the grant of Rs. 14,000, to meet the probable excess on the water works materials grant up to the end of the current financial year. The cost to be met from the grant reserved in the Budget for 1895-96, for further additional grants to be sanctioned up to the end of the year."

13293.

* *See* page 676 of the Proceedings of the Standing Committee, dated 12th December 1894.

Considered the following :—

No. 27137 of 1894-5.

BOMBAY, *25th February* 1895.

To THE MUNICIPAL SECRETARY.

SIR,—I have the honour to report, for the information of the Standing Committee, that Messrs. Bulkley and Company under their contracts, dated the 10th June 1893 and 7th February 1894, respectively, agreed to construct the works in pipe sewers, &c., in or for the Colaba District by the 2nd May 1895, and in and for the Umarkhadi Sewerage District by the 8th August 1895. Messrs. Bulkley & Co. have not, however, proceeded with the works with adequate vigour, and I have for some time been apprehensive that they could not be completed within the contract time. As regards the Colaba Sewerage works, the Special Drainage Engineer reported on the 22nd December last, that the excavation near Colonel Ryley's Bungalow, in Duxbury Lane, although begun in October 1893, was not finished; that other rock excavation in the Parsee Bazaar near Pilot Bunder had been abandoned for months, and it was only during the past few days that a few men, very inadequate in number, had again taken up the work; that rock excavation on the Parade-ground between the 1 o'clock gun and Beach Road, had been abandoned for several months, and that a length of about 150 feet of rock excavation in Colaba Causeway, although in hand for six months, had been progressing extremely slowly. Besides this there were several other portions of the work which had not been touched.

As regards the Umarkhadi sewerage works Mr. Smith reported on the 22nd December 1894, that he had hopes that after last rains Messrs. Bulkley and Company would show greater vigour in the prosecution of their work, but in this he was disappointed inasmuch as though the Contractors were carrying on more rapidly the work in which there was no rock excavation, they were extremely dilatory in carrying on excavation in rock and the work in this respect was in many places practically abandoned.

The Standing Committee are aware that complaints have been received of the unusually long time that Messrs. Bulkley & Co. have had trenching work in hand, and of the serious inconvenience caused thereby to the public traffic and to the residents of the locality.

I may mention that less than one half of the work has been done, and the remaining half or more involves rock excavation to a great extent. Taking into consideration the state of things, which I viewed with anxiety, I directed the Special Drainage Engineer to serve Messrs. Bulkley & Co. with notices to withdraw from the following works in the first instance under clauses 4 of their respective contracts:

COLABA.

Work in the line of pipe sewer which has to be laid in Duxbury Lane and open ground from manhole $\frac{59}{1}$ to Gravitating Point 4.

UMARKHADI.

Work in the line of pipe sewers which have to be laid in Kambad Street from manhole $\frac{57}{1}$ to manhole $\frac{28}{1}$, and in Pydownee Road from manhole $\frac{28}{1}$ to manhole $\frac{28}{9}$.

The works, in accordance with the terms of notices served, were taken out of the hands of Messrs. Bulkley & Co, and were ordered to be executed departmentally.

This procedure, however, had no good effect on the remaining works, but resulted only in long correspondence between the Special Drainage Engineer, myself, and Messrs. Bulkley & Co.

On the 14th instant, the Special Drainage Engineer reported in regard to the Colaba Sewerage works that on the 13th current, he found the whole work abandoned by the contractors, and as regards the Umarkhadi sewerage works he reported that he found the work of the ovoid sewer still proceeding, but all the remaining work was abandoned everywhere except at three places where stretches of pipe sewer had been partially laid. The men employed at these places gave Mr. Smith to understand that they had orders to finish the laying of the pipes there and then, to fill up the excavation and leave the work. Under these circumstances I have issued notices to the contractors to withdraw entirely from the Colaba and Umarkhadi Sewerage Works, and the works will now proceed departmentally. I hope they may be completed within available funds, but as to this, a further report will be made.—I have, &c.,

H. A. ACWORTH, Commissioner.

Considered, also the following :—

COLABA SEWERAGE WORKS AND UMARKHADI SEWERAGE WORKS.

No. $\frac{212}{313}$ BOMBAY, *23rd February* 1895.

TO THE CHAIRMAN OF THE STANDING COMMITTEE,
Municipal Corporation.

SIR,—We have the honor to report to you that on the 19th January 1895 the Municipal Commissioner in his letter No. 24404 ordered us to withdraw from Section $\frac{1}{1}$ to Gravitating Point No. 4 of our Colaba Sewerage Works, and placed his own workmen thereon.

2. That on the 26th January 1895 in his letter No. 24918 the Commissioner further ordered us to withdraw from Manhole $\frac{2}{1}$ to Manhole $\frac{2}{9}$ of our Umarkhadi Sewerage Works and placed his own workmen thereon.

3. And that on the 20th instant in his letters Nos. 26828 and 26829 the Commissioner ordered us to withdraw altogether from both works, and took possession of the whole of our tools, plant, and materials.

4. The following is a list of the correspondence which has lately passed between the Commissioner, the Engineer, and ourselves, bearing upon the question of the said orders to withdraw:

5. From the Contractors to the Commissioner.

No. 26392 dated 16th February 1895.
" 26662 " 19th "
" 26846 " 19th "
" 26823 A " 20th "
" 26663 " 18th "
" 26847 " 19th "
" 26829 A " 20th "

6. From the Engineer to the Contractors.

No. 2958 dated 14th February 1895.
" 2963 " 15th "
" 2954 " 14th "
" 2961 " 15th "

7. From the Contractors to the Commissioner.

No. $\frac{1161}{323}$ dated 13th February 1895.
" $\frac{205}{205}$ " 19th "
" $\frac{289}{304}$ " 21st "
" $\frac{210}{305}$ " 21st "
" $\frac{211}{307}$ " 21st "
" $\frac{180}{20}$ " 21st "
" $\frac{18}{202}$ " 21st "
" $\frac{182}{204}$ " 21st "

8th. From the Contractors to the Engineer.

No. $\frac{202}{283}$ dated 14th February 1895.
" $\frac{203}{285}$ " 16th "
" $\frac{204}{286}$ " 16th "
" $\frac{206}{298}$ " 19th "
" $\frac{208}{302}$ " 20th "

9th. We attach to this communication copies of our last three letters to the Commissioner.

We have, &c.,
BULKLEY & Co.

Note.—Copies of Correspondence referred to in Para. 9 of letter to the Chairman of the Standing Committee, No. 212, dated 23rd February 1895. —Bulkley & Co.

No. $\frac{180}{201}$ Bombay, 21*st February* 1895.

To the Municipal Commissioner
for the City of Bombay.

Sir,—In continuation of our No. $\frac{172}{191}$, and in further reply to your No. 24918 of 26th January, we greatly regret that you should have placed your workmen upon the section of our work referred to without in the first place ordering the work to be measured up by your Engineer with us.

This, we submit, is neither just or fair to us, especially in view of the fact that the work in question has never been measured up by the Engineer with us, and we belive has never been measured by the Engineer at any time as provided in clause XXVI of the contract.

We protest against this action on your part, and shall hold you entirely responsible.

We have, &c.,
BULKLEY & Co.

Note.—Our No. $\frac{200}{304}$ of same date is a similar letter regarding the Colaba works.

No. $\frac{181}{202}$ Bombay, 21*st February* 1895.

The Municipal Commissioner
for the City of Bombay.

Sir,—We have the honor to acknowledge receipt of your No. 26822-A of the 20th instant.

We protest against the action you have taken in the matter, and give you notice that we shall hold you entirely responsible.

We have informed you again and again that the chief cause of our inability to press on more rapidly with the works was that we were refused payment of moneys due to us under the contract and that we were unable, to advance absolute proof of this was, as we pointed out to you at our interview of the 18th and in our letter to the Engineer No. $\frac{201}{286}$, which you read at the said interview, due to the fact that the Engineer has never, throughout the whole progress of the works, measured up the works with us, as he was bound to have done under clauses XXVI and XXIX of the contract, and we verily believe that the Engineer has never measured up the work at all.

We note from the concluding para. of your letter under reply that you have directed the Engineer to cause a proper inventory to be taken of all our plant, tools, and materials, and we regret that you should not have arranged for the said inventory to be taken and agreed on jointly with a representative on our behalf.

For the said plant, tools and materials are not only at our stores, but are in various positions on the several portions of the work lately in progress, and many items will probably be overlooked and lost to us.

We have, &c.,
BULKLEY & Co.

Note—Our No. $\frac{210}{305}$ of same date is a similar letter regarding the Colaba works.

No. $\frac{182}{204}$

BOMBAY, 21*st February* 1895.

THE MUNICIPAL COMMISSIONER
for the City of Bombay.

SIR,—We have the honor to acknowledge receipt of your No. 26847 of the 19th instant.

In your opening para. you do not correctly state our ground of complaint in assuming that it is "in regard of the measurements which have from time to time been made by the Municipal Engineer and his assistants."

For the Engineer has had no Assistants as contemplated under the contract. The Engineer has, we believe, never measured our work at all, and if he has done so, it has not been done with us.

We are aware that certain Surveyors and an Inspector have taken some measurements from time to time. But Inspectors and Surveyors are not authorized to take measurements of our work as a basis of payments, and whatever these measurements may have been we know nothing of them. Therefore, as we say, your opening para. does not correctly state our chief complaint which is that payments due to us under the contract have been constantly withheld from us, and we trace the reason of this to the fact that the Engineer not only last month, but throughout the whole progress of the works has failed to measure up the works with us for payment as he was bound to do under clauses XXVI and XXIX.

You having decided upon what we regard as the very unjust procedure set out in para. 2 of your letter, we are ready to believe that in the arrangements you set forth in your para. 3 you are ordering what you believe will work fairly to us.

We are certain, however, that it will prove to be quite otherwise It obviously as you say should be a joint measurement agreed upon between the Engineer and ourselves, but it will now be a work of considerable difficulty, whereas had the joint measurement been a monthly one, as it should have been under the contract, it would have been easy and simple.

We met your Engineer at his request at Colaba this morning at 8 a.m., and measured till 10-30 a.m. We measured a length of about 800 lineal feet of work. To-morrow being a Hindoo

holiday, Mr. Smith expressed himself as unable to continue the measurements till Saturday. The total length of actual work on the two contracts is close upon sixty thousand lineal feet [60,000].

The Engineer stated to you at our last interview that it would take him a fortnight to measure up on both contracts.

We have little doubt that at to-day's rate of progress it will not be done under three months.

It may be easy to order us to withdraw from our works, but having done so, it cannot be just to oblige us to keep up a staff for an uncertain period, in order to attend on the Engineer for a few hours daily as it may suit him.

With reference to your para. 4 we certainly desire a measurement of the entire work, because so far as we know it has never been measured by the Engineer, and if it has been so measured, it has not been done with us.

We much regret that, as you mention in your para. 5, you are unable to entertain the proposal we made in our letter No. $\frac{205}{295}$ of the 19th instant.

We made the proposal in good faith as the only one that seemed to be in any may just to us and at the same time to allow you to enter on the prosecution of the work forthwith.

We would have preferred to be measured up and paid for work done at our schedule rates, but in view of your evident determination to enter at once on a prosecution of the work and our knowledge of the trouble involved in a measurement of the works at the present stage, it did not appear to be possible, but if you consider it possible, we are quite willing that a settlement should be made with us on the basis of payment for the work done at schedule rates, and for Plant, &c., at a valuation as contemplated under clause XXII.

We would even now urge you to consider whether you cannot find a way to do us justice in this matter, and we may mention to you that our position is this. Our expenditure on the two contracts up to date of order to withdraw is as follows :—

On Colaba	Rs. 1,12,000
On Umarkhadi	„ 63,000
A total on both contracts of	Rs. 1,75,000

While we have received payments from you :—

On Colaba	Rs. 39,976
On Umarkhadi	„ 21,829
A total on both contracts of only	Rs. 61,805

Showing an excess of expenditure over receipts of say Rs. 1,13,000

Further more, as showing the extent to which we have been assisted in our efforts to push on the works, we may remind you that during all the five months of the present working season, we have received from you on the Umarkhadi works a grand total of Rs. 10,583 only, and on the Colaba works *not one single payment.*

If our proposals be not accepted, we must insist on the measurement proceeding all day and de die in diem until completed, and if this also be refused we shall be compelled to take legal proceeding to restrain you from proceeding with the work until the measurements are complete. We have, &c.,

BULKLEY & Co.

Note.—Our No. $\frac{211}{307}$ of same date is a similar letter regarding the Colaba works.

No. 13294. *Resolved*: "That the following be *recorded*:—Letter to the Secretary, No. 27139, dated 25th instant, from the Commissioner, on the subject of Messrs. Bulkley & Co.'s contract for pipe sewers for the Colaba and Umarkhadi districts.

"Letter to the Chairman, dated 23rd idem, from Messrs. Bulkley & Co., forwarding correspondence between themselves and the Commissioner on the same subject."

No 13295. *Resolved*: "That the following be placed on the table:—Letter, dated 25th instant, from Messrs. Ardasir Framjee Moos and Nanabhai R. Ranina, stating that they have audited the weekly statements of receipts and disbursements at the end of each week for the month of January last, and compared them with the general and subsidiary ledgers and journal and found them correct. Forwarding the usual summary and statement of their scrutiny of accounts."

Considered the following: Memorandum No. 8604, dated 20th February 1895, to the Commissioner:—

SIR,—I have the honour to report that about 7-30 p.m. on Saturday the 16th instant, a pipe on the Tulsi 24" main failed at Marole, about 200 feet north of the Andheri Road. The pipe cracked in June last and was then secured with clamps. The repairs were completed at 7-30 p.m. on Sunday the 17th and water was again received into Malabar Hill Resevoir from 11 p.m.

Sunday. 2. There was also a joint leak on the Tansa 48" main on Friday 15th involving a stoppage of the Tansa supply during Friday night and until Saturday noon.—I have, &c.,

S. TOMLINSON, M.I.C.E.,
Water Engineer.

No. 23169 OF 1894-95.

BOMBAY 21*st February*, 1895.

Forwarded to the Municipal Commissioner.

M. C. MURZBAN,
Executive Engineer.

No. 27135 OF 25*th February* 1895.

To the Standing Committee for information.

H. A. A. WORTH, Commissioner.

No. 13296. *Resolved* : "That Memorandum No. 27135, dated 25th instant, from the Commissioner to the Secretary, be *recorded*."

No. 13297. *Resolved* : "That Memorandum No. 27028, dated 23rd instant, from the Commissioner, forwarding statement of houses or portions of houses which fell during the month of January last, be *recorded*." *

The following statement† was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pavai and Tansa, Lakes, for the week ending 24th February 1895.

No. 13298. *Resolved* : "That with reference to the Standing Committee's Resolution No. 1905, dated 8th June 1892, and previous Resolutions on the same subject, sanction be given to the issue, until such time as it may be found necessary to alter the rates, of water pipes and fittings required for Municipal works or for sale to the public, at rates shown in the statements accompanying the Commissioner's letter to the Secretary No. 27276, dated 26th instant."

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* The rear portion consisting of mud walls of a building situate at Portuguese Church Road, Dadar, owned by Messrs. Manuel Valles, D. B. Valles and P. J. A. Valles, fell on 7th ultimo on account of old age, though only 20 years old ; the loss is estimated at Rs. 400. There were no casualties.

† See Appendix B.

Considered the following :—

No. 4668 of 1894-95.

BOMBAY, 15*th February* 1895.

TO THE MUNICIPAL COMMISSIONER.

SIR,—With reference to the Standing Committee's Resolution No. 5620, dated 9th January 1895, I have the honor to request that you will be pleased to report for the information of that body the following transfer made from one invested fund to another during the past week:

On 5th February 1895 from the Surplus Cash Deposit Account to the 5 per cent. and 4 per cent. Municipal Loans Sinking Fund Deposit Account 5 per cent. Municipal Debentures for	Rs.	1,37,500
4 per cent. Do.	„	10,000
	Rs.	1,47,500

2. The balance remaining to the credit of the former Deposit Account after effecting the transfer now reported stands as under :—

In 5 per cent. Municipal Debentures for	Rs.	16,78,000 =	Rs.	16,78,000- 0-0
4 Do. do.	„	74,000 =	„	74,000- 0-0
3½ Do. Government Paper for	„	2,89,500 =	„	3,00,607-13-0
			Rs.	20,52,607-13-0

I have, &c.,

W. PEARSON, Acting Chief Accountant.

No. 26,824 of 20th February 1875.

Forwarded to the Standing Committee for information.

H. A. ACWORTH, Commissioner.

No. 13299.

Resolved: "That memorandum No. 26824, dated 20th instant, from the Commissioner, be *recorded*."

Read letter No. 27347, dated this day, from the Commissioner to the Secretary, as under :—

SIR,—Referring to the concluding para. of the Standing Committee Resolution No. 11453 of the 16th ultimo, I have the honor to report that Messrs. Treacher and Co. cannot supply Sanitas powder at Rs. 24-8-10 per cask of 200 lbs. net. They have quoted their rate at Rs. 30 per cask. Quotations were therefore invited from Messrs. Fleming & Co., who have offered

to supply it at Rs. 26-10 per cask of 200 lbs. gross, provided their offer is accepted before the end of this month. As about 500 casks of Sanitas powder will be required, I request the sanction of the Standing Committee to the acceptance of their offer at the rate quoted above.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved: "That with reference to the second paragraph of the Standing Committee's Resolution No. 11453, dated 16th ultimo, and as recommended by the Commissioner in his letter to the Secretary No. 27347, dated this day, sanction be given to the purchase, from Messrs. John Fleming and Co., of Sanitas powder, as may be required during 1895-96 at Rs. 26-10 per cask of 200 lbs. gross." No. 13300.

Considered letter No. 27350 dated this day, from the Commissiner to the Secretary, as under:—

SIR,—I have the honor to report that alternative tenders for one and three years for the supply of petty stores, hardware and timber were invited. In response for the supply of petty stores, three tenders for one year and two for three years have been received, and for the supply of hardware three for one year and two for three years, and for the supply of timber two for one year and one for three years have been received.

The following statement shows the percentage each tenderer has offered to charge on the rates fixed by the Executive Engineer:—

Petty Stores.

1.	Sullimanji Mulla Abdul Ali & Co., ...	At the rates fixed by the Executive Engineer	for three years.	
2.	Do.	5 per cent above	Do.. for	one year.
3.	Hassan Ali Mulla Hakimji & Brothers	8 „	do. for	3 years.
4.	Do.	11 „	„	1 year.
5.	Heptulla Shaik Adam.....	15 „	„	1 „

Hardware.

1.	Sullimanji Mulla Abdulalli and Co., ...	5 per cent above	Executive Engineers for three years.	
2.	Do.	10 „	„	1 „
3.	Hassanali Mulla Hakimji & Brothers	15 „	„	3 „
4.	Do.	20 „	„	1 „
5.	Heptulla Shaik Adam.....	22 per cent above	office rates	for 1 year

Timber.

1.	Sullimanji Mulla Abdulali & Co.....	6 „	„	3 „
2.	Do.	10 „	„	1 „
3.	Hassanali Mulla Hakimji & Brothers	15 „	„	1 „

It will be observed from this statement that the tender for the supply of petty stores from Messrs Sullimanji Abbul Ali & Co. for three years is the only one which is at the rates fixed by the Executive Engineer. The Executive Engineer, however, has been able to induce Messrs. Sullimanji Mulla Abdulali & Co. to reduce

their rates for 3 years for all the 3 contracts to the rates fixed by him. They have agreed to do so this on condition that the amount of deposit for each contract should be Rs. 3,000 instead of Rs. 5,000. As this reduction does not involve any risk, I request the sanction of the Standing Committee and the Corporation to the acceptance of their tender for three years for the supply of petty stores, hardware and timber.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 13301. *Resolved*: "That, as applied for by the Commissioner in his letter to the Secretary, No. 27350, dated this day, the Corporation be recommended to sanction the acceptance of Messrs. Sulimanji Mulla Abdulalli and Company's tenders for the supply of petty stores, hardware and timber, from 1st próximo, for three years at schedule rates.

"That the Chairman be requested to give notice of motion of intention to move at the next monthly meeting of the Corporation that sanction be given to this contract."

No. 13302. *Resolved*: "That, as applied for by the Commissioner in this memorandum, No. 27343, dated this day, sanction be given to the transfer of Rs. 499, from savings in the grant for Fire Brigade Section I Establishment and Section II Rent, Repairs and Miscellaneous, (*a*) feed of horses, and (*b*) Medicine to same head, Section II, contingencies, for extinguishing fires to meet charges (1) for shipping and loading Brigade appliances, and (2) for water debited to contingencies."

BOMBAY, *6th March* 1895.

AT the Meeting of the Standing Committee held this day, there were present:—

G. W. ROUGHTON, ESQ., *Chairman*.

BHALCHANDRA KRISHNA BHATAWADAKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM C.I.E.; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, ESQ.; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSOC. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPTAIN W. P. WALSHE,

H. A. ACWORTH, ESQ., I.C.S., Commissioner; and the SECRETARY.

The minutes of the meeting held on the 27th ultimo were signed.

The seal of the Corporation was affixed to the following debentures:—20 attested duplicate debentures of the Bombay Municipal Sanitary Works Loan of 1885, Nos. 1323 N.N., 2844 N.N., 3066 N.N., and 5311 N.N. to 5327 N.N., of Rs. 500 each; 1 attested duplicate debenture of the Bombay Municipal (Drainage) Loan of 1878, No. 1251, of Rs. 500; 4 attested duplicate debentures of the Sanitary Works Loan of 1885, Nos. 317 N.N. to 320 N.N., of Rs. 500 each; 2 sub-divided debentures of the Municipal Building Loan, Nos. 1599 and 1600, of Rs. 500 each; 2 ditto of the Tansa Water Works Loan, Nos. 29155 and 29156, of Rs. 500 each.

No. 13509. *Resolved*: "That, as applied for by the Commissioner in his memorandum No. 27214 dated 26th ultimo, sanction be given, under section 351 (2) of the Municipal Act, to the removal of the following structure built without permission:—

Name of owner.	Where.
Mr. Isa bin Khalippa	Building in the rear of his premises No. 99-133, Foras Road."

No. 13510. *Resolved*: "That, as applied for by the Commissioner in his memorandum No. 27978, dated this day, sanction be given to the cutting off of water-connections, as per list submitted therewith."

No. 13511. *Resolved*: "That letter to the Secretary, No. 27351, dated 27th ultimo, from the Commissioner, be forwarded to the Corporation, with the recommendation that sanction be given to the erection of a wooden railing around the lascars' quarters at the Fire Brigade Station, Pedder Market, Mazagon, at a cost of Rs. 155, to be met from savings in the grant for the construction of the station."

Considered letter No. 26281, of 15th ultimo, from the Commissioner to the Secretary, as under:—

SIR,—I have the honour to state that in the Budget for 1895-96, provision has been made for "improvements of the outlet towers at Vehar and Tulsi," at a cost of Rs. 32,575, to be paid out of a loan to be raised in 1895-96.

The following are the estimates for the works to be executed.

	Rs.	a.	p.	Rs.	a.	p.
Estimated cost of penstock, with cast-iron box, connecting rod, buckets, guides, spindle and wheel—Vehar outlet tower	6,284	0	9			
Estimated cost of lifting arrangement of strainers and plugs—Vehar outlet tower	2,843	2	4			
Estimated cost of plug seats with chains and hook, nuts and bolts, and strainer frames—Vehar outlet tower	5,445	3	7			
				14,572	6	8
Estimated cost of alteration to Tulsi outlet tower	9,526	4	0			
Estimated cost of strainer and chains to plugs and strainers to Tulsi outlet tower	2,409	14	4			
Estimated cost of lifting arrangement—Tulsi outlet tower	2,888	1	6			
Extra cartage, &c.	175	0	0			
Rs.	14,999	3	10			
For contingencies and bolts, nuts &c. at 20 per cent.	2,999	12	9			
				17,999	0	7
Total Rs.				32,571	7	3

As the loan will not be raised for some months, and the works are urgent, I request the sanction of the Standing Committee and the Corporation to proceed with them, pending the raising of the loan, the cost being met out of available loan and other balances to be adjusted against the loan when raised.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : "That letter No. 26281, dated 15th ultimo,
No. 13512. from the Commissioner to the Secretary, be forwarded to the Corporation, with the recommendation that sanction be given to the work of improving the outlet towers at Vehar and Tulsi being

proceeded with at an estimated cost of Rs. 32,571-7-3 as under :—

	Rs. a. p.	Rs. a. p.
Estimated cost of penstock, with cast-iron box, connecting rod, buckets, guides, spindle and wheel—Vehar outlet tower	6,284 0 9	
Estimated cost of lifting arrangement of strainers and plugs—Vehar outlet tower	2,843 2 4	
Estimated cost of plug seats with chains and hook, nuts and bolts, and strainer frames—Vehar outlet tower	5,445 3 7	
		14,572 6 8
Estimated cost of alteration to Tulsi outlet tower	9,526 4 0	
Estimated cost of strainer and chains to plugs and strainers to Tulsi outlet tower	2,409 14 4	
Estimated cost of lifting arrangement—Tulsi outlet tower	2,888 1 6	
Extra cartage, &c.	175 0 0	
	14,999 3 10	
For contingencies and bolts and nuts at 20 per cent	2,999 12 9	
		17,999 0 7
	Total Rs.	32,571 7 3

"The cost to be met by advances from available loan and other balances to be hereafter adjusted against the provision of Rs. 32,575 when the loan is raised."

Considered the following :—

No. $\frac{W}{408}$ of 1894-95.

BOMBAY, 13*th April* 1894.

TO THE MUNICIPAL COMMISSIONER.

SIR,—I have the honour to submit plan showing proposed water mains in the Agripada District and estimate of cost of same.

2. The mains recommended are

9" in Gilder Street from Arthur Road to Bellasis Road.
6" in Souter Street " Gilder Street to Ripon Road.
4" in Club Street " Gilder Street to Railway, West, and from Gilder Street to Morland Road, East.

3. The 9" main, Gilder Street, will be connected with the 27" main at Arthur Road, in which it is practically certain the pressure will be good for several years to come. A 9" is the best size for efficient fire protection, for a large district, such as this must always serve. For the ordinary supply I should have recommended a 12" main except for the reasons that

(1) It may take some years for this district to develop.

(2) Whenever this occurs there will certainly be the 27" main in Arthur Road, and probably also a 32" or the large sized main in Morland Road, and from either or both of these mains could be laid in other streets not now under construction, suitable for the actual development and so as to strengthen the supply to the 9", Gilder Street, if that should be required.

4. At Bellasis Road it will be connected with the existing 4", Bellasis Road, and 4", Gilder Street, mains, portions of which it will usually supply, and the whole of which it may on occasion be required to supply.

5. A 4" main in Club Road will suffice for ordinary purposes, but if thought desirable to preserve effective pressure for the system of road watering direct from hydrants (as already recommended and under trial) a 6" might be laid (and 6" adopted as the smallest diameter of pipe to be used in thoroughfares).

6. I submit estimates.

(1.) Providing hydrants as hitherto, Rs. 27,104.

(2.) Providing hydrants of the new pattern, Rs. 33,574, and at 130 feet intervals.

The difference in cost is Rs. 6,470. The difference is caused entirely by special provisions on account of road watering, and I think the amount should be met by a separate grant.

7. I recommend that the laying be done by Messrs. Littlewood, Ballonji & Co., the lowest accepted tenderers, for laying pipes recently placed, and whose contract makes provisions for such work being given as extras. The iron work will be supplied from water works stores at fixed rates and road repairs effected by the Road Department.—I have, &c.,

S. TOMLINSON, Water Engineer.

No. 27539 OF 1894-95.

BOMBAY, *28th February* 1895.

TO THE MUNICIPAL SECRETARY,

The only question is whether a 6" or a 9" main should be laid in Connaught Road. The Executive Engineer says the former and the Water Engineer the latter. I agree with the Water Engineer. Mr. Murzban's views are set forth in his No. 13289 of 6th October last. I will shortly give my reasons for differing from him, but the Standing Committee will do well on all

professional questions of Water Engineering to prefer *prima facie* the opinion of Mr. Tomlinson; on administrative questions connected with Water Engineering the opinion of the Commissioner will probably prevail.

2. Distribution mains should be so designed and connected that they will be efficient not only when everything is working smoothly and at its best but also when there are difficulties or shortcomings, at least of an ordinary character. Mr. Murzban provides for the ordinary excess of morning and evening demand over the average by assuming that the rate of supply will be three times the average. But it is assumed that there will always be available Tansa pressure, and not only that but Tansa pressure due to the height of the Ghatkoper Siphon head.

(*a*) A reference to pages 59 and 64 of the printed report entitled "Information called for by the Committee on Water-supply, June 1894," will show as might be expected that this condition is never realized under ordinary working conditions during day light hours. 50′ should be deducted, say; 255′ instead of 305′ initial pressure.

(*b*) When Tansa is shut off there is only available the pressure from Vehar, say, 255 T. H. D. at Vehar and the 24″ and 32″ mains to bring it in.

(*c*) At all times the over-average supply must be met from the service reservoirs. Bhandarwada is only at 190 overflow, say, 175 working level.

Fire demand does not appear to have been considered—a 6″ pipe will not supply more than two hose streams, and we often have 5 or 6 or even more working at a fire.

Hydraulic authorities, I am told, lay down about 3 feet per second as a maximum velocity of flow in a 6″ distribution pipe. Mr. Murzban exacts over 5 feet, involving a loss of pressure according to his own calculations, of over 120 feet per mile for the lower flow mentioned, and nearly 400 feet per mile for the higher suggested possible rate of 800 gallons a minute.

Pressure being what is always called for in Bombay (and naturally so, for our possible pressure well conserved is only moderate) what justification is there for throwing it away like this against the opinion of all authorities and in the face of our own experience?

Referring to Mr. Murzban's 2nd para, I must point out that our rate of supply is uniform at 22 million gallons a day. The increased quantity wanted in the morning and evening can only be met from the service reservoirs. It is not competent, therefore, for us to take the Ghatkoper head as available; for it is not. The Executive Engineer, moreover, assumes that the Tansa water is always fully charged to the siphon head. A reference to pages 59 and 64 of the report already alluded to will show that there is never full pressure during day light hours.

Referring to Mr. Murzban's para. 3 no provision is made for water required on the southern (or garden) side of the road. If water there required on the large area added to the gardens, be brought from the west by separate mains, the cost will exceed the difference between a 6" and a 9" main.

The loss of head is calculated on a supply at the rate of 20 millions a day until the water enters Connaught Road, it is then increased to 60 millions. This is inconsistent, and I do not think the calculations are to be depended on. By actual gauging I am informed that pressure is found to go down to 59 lbs. = 136 feet or 226 on T. H. D. in Parel Road, opposite Connaught Road. The Executive Engineer assumes 267 feet or 41 in excess of the fact. The discrepancy arises from assuming a rate of 60 millions of gallons a day at Ghatkoper siphon head pressure. This is, and will remain, impossible. There is no site in the island at 305 T. H. D., nor is Vehar (18 miles away) higher than 263·5 T. H. D overflow level.

This error applied to the Executive Engineer's own quantities gives a pressure remaining in Connaught Road of 87 feet against 128 feet for 400 gallons per minute, and—23 instead of + 18 for our 800 gallons per minute supply. This assumes everything at the best. But we must provide for an efficient supply when Tansa is cut off, and the whole supply is being drawn from Vehar and Bhandarwada.

In para. 6 Mr. Murzban misconceives the object. The connection is proposed to enable the 9" main to be fed either from the Parel Road side or the Tank Bunder side, not to be a means of supply to the Parel Road and Tank Bunder mains. The Water Engineer's letter may be referred to on this point.

The supply is calculated at the average height and midway on the pipe. It is quite conceivable, and such a contingency should be prepared for, that the maximum supply for fire might be at the greatest height and the extreme end of the main. A scheme which breaks down for fire purposes because it assumes everything at the best had better have no chance of demonstrating its weakness. Except that there is every chance that this 9" main will be connected with much larger ones on the east, it should have been 12", for it must not be forgotten that it may and probably will be called on eventually to supply cross roads between Connaught and Albert Roads, with the houses, mills, &c., on them. It has to cover a large area on the North, a considerable area on the South besides the road in which it is laid. I think, therefore, it would be a great mistake to make it less than 9.

H. A. ACWORTH, Commissioner.

"It was agreed that Memorandum to the Secretary, No. 27539, dated 28th ultimo, from the Commissioner, on the question of the size of

No. 13513.

water main, to be laid in Connaught Road, be placed on the file for reference when proposals for laying the mains are before the Committee."

Considered the following :—

No. 8063 of 1894-95.

BOMBAY, 30*th January* 1895.

To H. A ACWORTH, Esq., I.C.S.,

through the Executive Engineer.

SIR;—I have the honour to report that at about 9-30 A.M. on Saturday, the 26th instant a 48" pipe on the Tansa main at Kasheli burst. The pipe was the one over the south abutment of bridge No. 2 at 32 miles 1068 feet. 2. That repairs were taken in hand, and completed on Sunday night about 11, P.M. The charging of the siphon was then begun slowly from 3.A M., and the supply of water was resumed in the City about 10 P.M. on Monday night. 3. The pipe which failed was a curved pipe 4'-3" long probably locally made It had been in use since the works were opened: The thickness of metal was 1½"; metal good; casting good, except towards spigot end. For 20" back from the spigot the metal was blackened and for a small depth, corroded. The fracture was from the socket for a length of 3'-3", a piece about 5 feet in width at the socket end being blown out. No serious damage was done by the escaping water. 4. The failure may be attributed to the action of several forces: (1) The changes of temperature during the week preceding had been for Bombay severe. (2) The joint was observed to be weeping on the 21st, and was ordered to be recaulked; this was done the same day. The process of caulking of necessity increases the tensile strain or bursting strain on the socket. (3) The pipe was situated at the junction of the unyielding iron work of the bridge and the earthen bank of the approach to the bridge. This situation may involve strain in the pipe. (4) The pipe in the line of crack forward from the spigot may have been weaker than usual, even where no weakness was visible after the fracture. (5) Under the influence of these forces the pipe was no longer able, to remain intact, and therefore burst. I have in previous reports stated how difficult it is to account for these occasional failures which take place in cast-iron pipes. There was no known change, such as increased pressure or shock introduced on the day of failure, which can account for the one in question. (6) I can only draw your attention once more to the very serious state of affairs in the City which is and must be caused by such stoppages as this. During Sunday night and the whole of Monday there was practically no storage in the service reservoirs beyond 4'-6" in the Malabar Hill Reservoir (settling basin) held back to meet the possible outbreak of fire. We have been very

fortunate so far not to have had a prolonged stoppage, but it ought not to require the immense inconvenience and loss which such a stoppage would involve to convince us of the necessity either for the proposed connection with Vehar Lake or a 30 million gallons service reservoir in the city. Even both these works would cost less than some towns with similar works have expended on service reservoirs. (7) Advantage was taken of the stoppage to effect some slight repairs to sluice valves and other fittings in different places.—I have, &c.,

S. TOMLINSON, Water Engineer.

No. 21693 OF 1894-95.

BOMBAY, 1*st February* 1895.

THE MUNICIPAL COMMISSIONER.

Forwarded to the Municipal Commissioner.

M. C. MURZBAN, Engineer.

No. 25604 OF 4*th February* 1895.

Forwarded to the Standing Committee. There has been another burst since it has been no fault either of the Commissioner or the Standing Committee that the steel main connection with Vehar has not been sanctioned. It was recommended by both to the Corporation long ago, and is now under the consideration of a Committee, and as far as the Commissioner can see, may be under consideration ten years hence.

H. A. ACWORTH, Commissioner.

No. 13514. *Resolved* : "That memorandum No. 25604, dated 4th ultimo, from the Commissioner, be *recorded.*"

Considered the following :—

No. 20773 OF 1894-95.

BOMBAY, 21*st January* 1895.

TO THE COMMISSIONER.

SIR,—With reference to your No. 21562 of 18th December 1894, I have the honour to report that the probable cost of acquiring sites "E" and "F" for the proposed market at Fergusson Road will be as follows :—

(*a*) Triangular site "E," belonging to Bai Dinbai, near the Parel Railway Station of the B. B. & C. I. Railway, 1,088 square yards of land at Rs. 4 per square yard, Rs. 4,352. (*b*) Site, "F" belonging to Mr. Kashinath Dewji, on Fergusson Road, opposite the Lakhmidas Khimji Mills, 942·22 square yards of land at Rs. 4 per square yard, Rs. 3,768·88.

2. A plan showing these sites is herewith submitted. Of the site "E," only the portion coloured yellow will be required for the market, while the remainder scored yellow and measuring about 815 square yards, will be taken up for the proposed overbridge on Fergusson Road. The value of the strip scored yellow is not included in the above estimate, and will be paid for either from the street improvement grant or from any grant that may be made for the construction of the overbridge.

3. Of the site "F," only the portion coloured red will be required for the market. That scored red and measuring about 144 square yards will be taken up for the overbridge, and will be paid for as above mentioned.

4. I beg also to submit a detailed estimate amounting Rs. 30,693 of the probable cost of erecting a market either site "E or F." This amount is exclusive of the value land.—I have, &c.,

M. C. MURZBAN, Executive Engineer.

No. 25198 of 1894-95.

30th January 1895.

Forwarded to the Municipal Secretary with reference to the Standing Committee Resolution No. 10139 of the 12th ultimo.

H. A. ACWORTH, Commissioner.

It was agreed that Memorandum to the Secretary,

No. 13515. No. 25198, dated 30th January 1895, from the Commissioner regarding site for the proposed market at Currey Road, be placed on the list of outstanding Business."*

Resolved:—"That the following be *recorded*:—

No. 13516. Memorandum No. 27574, dated 1st instant, from the Commissioner reporting, with reference to the Standing Committee's Resolution No. 4484, dated 3rd October 1888, the following transfer to the Municipal General Fund Pass Book, *viz.*, on 19th February 1895, (*a*) from the 5 per cent. and 4 per cent. Municipal Loans Sinking Fund deposit account, Rs. 1,47,500. Also reporting with reference to the Committee's Resolution No. 5620, dated 9th January 1889, the following transfers from one invested fund to another:—On 19th February 1895, (*b*) from the surplus cash deposit accounts to the Municipal premia on different Municipal Loans deposit account 5 per

* *See* Proceedings of the Standing Committee of 12th December 1894.

cent. debenture for Rs. 4,000; on 19th February 1895 (*b*) from Do. to the Worn-out Mains Renewal Fund deposit account 1 Debenture for Rs. 500; from ditto on 19th February, 1895 (*b*) from do. to the Municipal Buildings Fire Insurance Fund deposit account, 1 Debenture for Rs. 500 : total Rs. 5,000."†

Considered the following :—

BOMBAY, *27th February* 1895.

THE Sub-Committee appointed on the 22nd August 1894, as per margin, beg to report that having visited the Infectious Diseases Hospital at Arthus Road, and carefully considered the requirements of that institution, they have come to the conclusion that it is unnecessary to entertain so expensive a staff as that now maintained, namely, 1 Surgeon on Rs. 150 per mensem, and subordinate staff costing Rs. 123-8-0, per mensem, inclusive of the pay of 2 Ramosis. All the purposes for which this institution is intended, will be served, by the employment of a staff such as that laid down in the report of the Committee appointed under the terms of Government Resolution No. 3548, of 7th October 1891, of which the then Surgeon General, Dr. Pinkerton, was Chairman, namely :—

* * *

That a Sub-Committee consisting of the Hon'ble Mr. Javerilal U. Yajnik; Dr. Cowasji Hormasji; Dr. Bhalchandra Krishna; and Dr. Viegas, be appointed to enquire into and report on the question of the cost of the hospital.

1 First Class Hospital Assistant on	Rs.	50	0	0
2 Ward Boys on Rs. 10 each	„	20	0	0
1 Ayah	„	10	0	0
1 Cook	„	11	0	0
1 Hamal	„	10	0	0
1 Halalkhor	„	11	8	0
Total.....	Rs.	112	8	0

per mensem.

† The Acting Chief Accountant reports to the Commissioner that the balances remaining to the credit of the above deposit accounts after effecting the transfers now reported stand as under :—

(*a*) In 5 per cent. Municipal Debentures for	Rs. 10,23,500 =	Rs.	10,23,500	0	0
In 4 per cent. do	„ 93,500 =	„	93,500	0	0
In Cash		„	110	12	0
Total...		Rs.	11,17,110	12	0
(*b*) In 5 per cent. Municipal Debentures for	Rs. 16,73,000		16,73,000	0	0
In 4 per cent. do.	„ 74,000 =		74,000	0	0
Do. Government Paper for	„ 2,89,500		3,00,607	13	0
In Cash			12,464	14	0
Total...		Rs.	20,60,072	11	0

If the Corporation thought fit, the salary of the Hospital Assistant might be raised by increments to Rs. 60 a month, but in any case the Sub-Committee consider that this establishment is all that is requisite, as it could easily be increased at once to any extent, whenever any serious outbreak or epidemic of contagious disease occurred; whilst on the other hand, as soon as this necessity ceased the extra servants could be discharged. Under the arrangement the Sub-Committee propose, therefore, there would be a saving of Rs. 1,800 per annum in the cost of the staff, which instead of costing Rs. 3,282, as at present, would only come to Rs. 1,350 per annum—a saving of Rs. 1,932.

COWASJEE HORMASJEE.
JAVERILAL U. YAJNIK.
BHALCHANDRA KRISHNA.
ACCACIO G. VIEGAS.

Proposed by Cowasjee Hormasjee, Esq., seconded by A. G. Viegas, Esq.—

"That the report of the Sub-Committee on the question of the cost of maintaining the Infectious Diseases Hospital, Arthur Road, be approved and adopted; and that the same be forwarded to the Corporation with the recommendation that the cost of the staff of the hospital be reduced to Rs. 1,350 per annum."

Amendment proposed by S. Rebsch, Esq., seconded by R. H. Vincent, Esq.—

"That the report of the Sub-Committee on the subject of the cost of the Infectious Diseases Hospital be *recorded*."

No. 13517.

On a division the *amendment* was *carried* by 6 votes *against* 5 votes.

In accordance with notice, it was proposed by K. M. Shroff, Esq.—

"That a Sub-Committee of the Standing Committee be appointed to enquire into the disputes Messrs. Bulkley & Co. have had with the Municipality relating to the Umarkhadi and Colaba Drainage Works."

Not seconded.

The following return was read and *recorded* :—

Return of fires at No. 11, Memon Street, Old Imambara, Khetwady 9th Lane, and French Bridge (The Mahomedan Mill), forwarded with the Commis-

sioner's Memorandum No. 27144, dated 25th February, 1895*.

The following statement† was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes for the week ending 3rd March 1895.

No. 13520. *Resolved* : "That, as applied for by the Commissioner in his letter to the Secretary, No. 27825, dated 5th instant, sanction be given to the acceptance of the tender of Mr. Dewram Keshevji, the lower of the two tenders received, for annual repairs and petty works, and for the supply of materials during 1895-96 at scheduled rates 6¼ per cent. below the rates fixed by the Executive Engineer."

No. 13521. *Resolved* : "That letter No. 27907, dated 5th instant, to the Secretary, from the Commissioner, reporting that he has sold the right of gathering fruit from the three mango trees belonging to the Municipality, standing near the Nabob's Tank at Mazagon, to one Ladoo Gopal for Rs. 8 for the next season, be *recorded.*"‡

No. 13522. *Resolved* : "That letter to the Secretary, No. 27765, dated 4th instant, from the Commissioner, reporting that he has sold the right of cutting grass from and cultivating the ground to the east of Ripon Road, admeasuring 2,468 sqare yards, for Rs. 30 to Mr. Basapa Mulloo, from 1st March 1895 to 29th February 1896, be *recorded.*"§

No. 13523. *Resolved* : "That letter to the Secretary, No. 27787, dated 4th instant, from the Commissioner, be forwarded to the Corporation, with the recommendation that sanction be given to the grants of Rs. 588 and Rs. 140, respectively, or Rs. 728 in all, to the debit of the grant for house connections in the First Drainage Section, to meet the cost of (1) connecting house Nos. 201 to 205, at Foras Road, belonging to Mr. Dayabhai Parmanandas, with the 6" stoneware pipe, municipal drain thereat, and (2) connecting the

* *See* Appendix D. † *See* Appendix C.

‡ The right has been sold for the first time this year.

§ The right has been sold for the first time this year.

house gully between premises Nos. 118 and 122 in Moogbhat Lane, by means of 6" stoneware pipe drain and a masonry catch-pit with the 9" stoneware pipe municipal sewer in that lane."

BOMBAY, *13th March* 1895.

At the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman*.,
BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM, C.I.E.; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKER YAJNIK; KAIKHOSRO N. KABRAJEE, ESQ.; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPTAIN W. P. WALSHE.
H. A. ACWORTH, ESQ., I.C.S., Commissioner, and the SECRETARY.
P. C. H. SNOW, ESQ., I.C.S., was also present.

The minutes of the Meeting held on the 6th instant, were signed.

No. 13773. *Resolved* : "That the following be *recorded* :—Memorandum No. 28202, dated 9th instant, from the Commissioner, forwarding, for the information of the Standing Committee and Corporation, Government Resolution No. 969, General Department, dated 8th idem, appointing Mr. P. C. H. Snow, I.C.S., to act as Commissioner during Mr. Acworth's absence on furlough."

The seal of the Corporation was affixed to deeds of contracts (1) with the Proprietors, *Times of India* press, for the Municipal printing work for a period of five years from 1st March 1895; and (2) with Messrs. Killick, Nixon & Co. for the supply of 500 tons of Duffryn Cardiff coal and 500 tons of Davison's West Hartley coal.

No. 13776. *Resolved* : "That as applied for by the Commissioner, in his Memoranda Nos. 27867, 28071 and 28260 dated 5th, 7th and 9th instant, sanction be given under section 351 (2) of the Municipal Act, to the removal of the following structures built without permission :—

Names of owners.	Where.
Mr. Manmohandas Casidas	Shed at Colaba Causeway.
„ Shakar Satu	Do. at Gowalia Tank Road.
Messrs. Assur Veerjee & Co., Agents, Sun Mill Co.	Building at Fergusson Road."

Resolved: "That the following be *recorded*:—Letter to the Secretary, No. 27988, dated 6th instant, from the Commissioner, reporting with reference to the Standing Committee's Resolution No. 13286-A, dated 27th ultimo, that he has directed the Executive Engineer to serve a fresh notice on Messrs. Breul & Co. for the removal of sheds at Colaba Causeway."

No. 13777.

Resolved: "That as applied for by the Commissioner, in his memorandum No. 28457, dated this day, sanction be given to the cutting off of connections as per list submitted therewith."

No. 13778.

Resolved: "That as applied for by the Commissioner, in his Memorandum No. 28207, dated 9th instant, and subject to the approval of the Corporation under Section 133 (2) of the Municipal Act, sanction be given to the transfer of Rs. 1,152 from savings in the grant for C, road watering, section I, to same head, section II, repairs to water-posts, Persian wheels, &c., to meet excess due (1) to Rs. 751-2-1 of the expenditure for 1893-94 being debited to the grant for 1894-95 and (2) to increase of repairs to water-posts, &c."

No. 13779.

Read the following letter No. 28257, dated 9th instant, from the Commissioner to the Secretary:—

SIR,—I have the honour to request the sanction of the Standing Committee and the Corporation to sign cheques for the following expenditure not separately provided for in the Budget for 1895-96 as advances to be subsequently adjusted against Budget grants or by cash recoveries:—

Advances to Municipal Officers	Rs.	15,000
Private and Departmental Works	,,	1,00,000
General Stock (carbolic acid powder) disinfectants &c.	,,	25,000
Building and Repair certificate and water connection application forms...	,,	2,000
Purchase of stores for water works maintenance, new works, sales, &c....	,,	1,00,000
Total...	Rs.	2,42,000

I have, &c.,

H. A. ACWORTH, Commissioner.

No. 13780. *Resolved*: "That as applied for by the Commissioner, in his letter to the Secretary No.28257 of 9th instant, the Corporation be recommended to sanction the signing of cheques for the following expenditure as advances to be subsequently adjusted against Budget grants for the year 1895-96 or by cash recoveries, *viz.*" :—

"Advances to Municipal Officers	Rs.	15,000
Private and Departmental Works.....	„	1,00,000
General Stock (carbolic acid powder) disinfectants, &c.....	„	25,000
Building and Repair certificate and water connection application forms..	„	2,000
Purchase of Stores for Water Works Maintenance, New Works, Sales, &c.	„	1,00,000
Total Rs.....		2,42,000"

No. 13781. *Resolved*: "That with reference to letter and memorandum to the Secretary, Nos. 28059 and 28160, dated 7th & 8th instant, from the Commissioner, sanction be given to the purchase, from Messrs. C. J. Khambata & Co., of 250 tons of Cardiff coal, at Rs. 18-8-0 per ton, and 25 tons of Davison's West Hartley coal, at Rs. 16-8-0 per ton, for use at the Municipal Workshops and for working steam-rollers and the boiler of the electric light plant. The cost to be met from the Budget provision for 1895-96.

"That under the terms of section 72 (3) of the Municipal Act, sanction be given to the dispensing with invitation for tenders which would otherwise be necessary, as the present arrangements for the purchase of coal have been advantageous to the Municipality."

Read the following :—

BOMBAY, 1*st March* 1895.

To H. A. ACWORTH, Esq., I. C. S., Commissioner.

SIR,—I have the honour to request that you will be good enough to obtain the sanction of the Standing Committee under regulation 3 of the Pension Regulations to my being permitted to contribute to the Pension Fund from 2nd April 1883, the date on which I first entered municipal service. 2. I was at the time 36 years old, *i.e.*, 1 year over 25 years of age, the limit allowed under the old rules for contributing to the Pension

Fund, and was not therefore allowed to contribute. 3. From the beginning up to date I have held appointments distinctly specified and provided for in the annual Budgets and paid out of revenue, and no period of my service has been spent on temporary and capital works. 4. My case is stronger than that of Mr. Smith, who has been allowed to contribute under the old rules, though he was 39 years of age when he joined municipal service, and a portion of his services was spent on temporary works. 5. The nature of the appointments held by me since I joined is such as is defined in Regulation 2 (1) of the Pension Regulations, and my case, I submit, comes under Regulation 3. 6. I have now completed 12 years service, am now 47 years old, and am strong and healthy. Mr. Smith was 48 years old when he was allowed to contribute to the Pension Fund. 7. Under the circumstances I request that you will kindly recommend the Standing Committee to grant me permission, under Regulation 3, to contribute to the Pension Fund, from 2nd April 1883, on my paying up the arrear contributions.—I have, &c.,

DOUGLAS BENNETT,
Superintendent of Markets and Slaughter-houses.

No. 27836 of *5th March* 1895.

Forwarded to the Standing Committee for favourable consideration. For Officers joining the service since the new Pension Rules came into force, rule 3 should be relaxed only under very exceptional circumstances, but the case is quite different when an officer has joined the municipal service in permanent employ before the new pension rules came into force. The Standing Committee have by their concession to Mr. Smith created a precedent in favour of these men which it is difficult to refuse the advantage of to such officers as Mr. Bennett, who was much nearer the 35 years limit when he joined the service than Mr. Smith was.

The Commissioner thinks that the option given to the Standing Committee by rule 3 should be exercised, and Mr. Bennett be allowed to contribute to the pension fund, on paying the past contributions of course.

H. A. ACWORTH, Commissioner.

No. 13782. *Resolved* : "That, as applied for by the Commissioner in his memorandum to the Secretary, No. 27836, dated 5th instant, sanction be given under regulation 3 of the new Pension Regulations to Mr. D. Bennett, Superintendent of Markets, being allowed to contribute to the pension fund, from the date of his joining the service, on condition that before being placed on the fund he pays up all arrears

of contribution to the fund; and that he passes the necessary medical examination."

Resolved : "That the following be *recorded* :—Letter No. 13783. to the Secretary, No. 27999, dated 6th instant, from the Commissioner, reporting that he has sold the right of cutting grass from, and cultivating ground at, Agripada, admeasuring 16,482·48 sq. yards to Mr. Nursoo Ellapa, for Rs. 410, for one year ending 29th February 1896.*

Resolved : "That with reference to memorandum No. 13784. No. 28208, dated 9th instant, from the Commissioner, asking sanction to the serving of a notice upon Messrs. Cassumbhoy Mahomedbhoy Mehtá and Rustomji Hormusji Patuck, requiring them to fill up the well attached to bullock stable situate at No. 28 Khetwádi 2nd Street, the Commissioner be asked whether Messrs. Cassumbhoy M. Mehtá and Rustomji H. Patuck have been called upon to clean the well ?"

The following was *withdrawn* by the Commissioner :—Memorandum from himself to the Secretary, No. 28056, dated 7th instant, forwarding letter from the Municipal Solicitors in respect of suit filed in the Small Causes Court by Messrs. Pandurang Crishnaji and Narayen Crishnaji for the recovery of Rs. 1,323, with interest, being compensation for land at Dadar Road taken for street improvement purposes.

Read letter No. 28251, dated 9th instant, from the Commissioner to the Secretary as under :—

SIR,—In forwarding herewith a copy of the Bombay Municipal List, I have the honour to report, for the information of the Standing Committee, that I have added to the list an index shewing, in full the names and surnames of the municipal employés, as desired under their Resolution No. 7010, dated 19th September 1891. In future, I propose to divide the columns headed "Date of entering municipal service" and "Date of attainment to present pay and allowances" into two parts, one shewing temporary and the other permanent, as shown in the accompanying statement.—I have, &c.,

H. A. ACWORTH, Commissioner.

* Last year the sale realized Rs. 420.

Names of Officers.	Race.	Caste.	Father's Name.	Date of birth by Christian era as nearly as can be ascertained.	Educational attainment.	Date of entering Municipal service.		Designation of appointment and pay and allowances on entering the service.			Designation of present appointment and pay and allowances.			Date of attainment to present pay and allowances.		Remarks.
						Temporary.	Permanent.	Designation.	Pay.	Allowances.	Designation.	Pay.	Allowances.	Temporary.	Permanent.	

Resolved :— "That with reference to letter to the Secretary, No. 28251, dated 9th instant, from the Commissioner, forwarding copy of "Municipal List," corrected to 31st October last, the Standing Committee approve of the Commissioner's proposal to divide the columns headed 'Date of entering municipal service' and 'Date of attainment to present pay and allowances' into two parts, one showing temporary and the other permanent service."

No. 13786.

Resolved : "That the following be *recorded* :—Memorandum No. 28264, dated 9th instant, from the Commissioner, forwarding statement as under, of set-backs sanctioned during the month of February last :—

No. 13787.

Serial No.	Ward.	Property No.	Locality.	Name of the person called upon to set-back the property.	Number of square yards of lands.
1	C.	259-261	Doctor Street ...	Bai Begambai, wife of Haziz Mula.	30·18
2	E.		Carpenter Street ...	Mr. Meherji R. Kharas	253·60
3	C.		Kika Street	Messrs. Vithaldas Pranjivandas and others.	5·29
4	C.	596	Kalbadevi Road	Mr. Kristnaji Rangji.	1·35
5	D.		Khetwadi 9th Lane.	„ Abdul Rehman Hasan.	8·76
6	C.		Kolbhat Lane ...	„ Framji Vinji for Jairam Hari.	5·50
7	C.		Old Hanuman Lane.	„ Dinsha N. Bode.	38·68
8	A.	122-124	Bazar Gate Street...	„ Adamalli Sultanalli.	1·80

Read petition, dated 27th December 1894, as follows from Mr. Abraham Daniel Pezarkar and others :—

To THE PRESIDENT TO THE BOMBAY
MUNICIPAL CORPORATION, Bombay.

SIR,—We the undersigned beg you to lay this our application containing our grievances before the Corporation, and kindly favour us with the result thereof as soon as you can. That the roads, about 300 feet long, of the Combad Street and Paidhoni Street were opened for drainage about six months ago, and there is no chance of their being completed in a year more if they are to go on in the state as they now go, as there are no labourers at all working on them for the last about fortnight, which fact will be known by your deputing a man to inquire into the matter. The water accumulated in the excavations produce bad smell to the inhabitants of the neighbouring houses situated there. Inconveniences are felt by the persons passing the roads on account of the narrow passages. Damages are always happened to the houses and water-pipes by the innumerable load carriages passing through the narrow passages, for they are the roads where traders live and have their shops. Sickness is supposed to prevail in the people residing there for not cleaning as usual the dirt accumulated on the narrow passages where earth and stones are spread. The hammering of the blacksmith whole day in sharpening the iron instruments, and the bad and sickly charcoal smoke producing from the furnace set in the middle of the first road, annoy us when the furnace is in use. Under these circumstances, we request that the Corporation will have the goodness to look into the matter and press the parties concerned to have the work completed as soon as possible, and for which we shall feel deeply grateful.

Read also letter No. 27785, dated 5th instant, from the Commissioner to the Secretary, as under :—

SIR,—In reference to the Standing Committee Resolution No. 10703, of the 2nd January 1895, I have the honour to report that the complaint refers to the sewerage works in Combad Street and Paidownee Road, which Messrs. Bulkley & Co. were executing. The work have already been taken out of their hands, as reported to the Standing Committee under this office No. 27137 of the 25th ultimo, and are being carried out departmentally on their account. The complainants are now satisfied with the progress of the works. As regards the hammering of blaksmiths, the Health Officer reports that it may be an annoyance, but it is not a nuisance in the ordinary sense of the term. The smoke may be slight nuisance, but it is only a temporary inconvenience. Under the circumstances, no action can be taken in the matter.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 13788. *Resolved*: "That with reference to petition, dated 27th December last, from Mr. Abraham Daniel Pezarkar and others, complaining of the sewerage works in Combad Street and Paidhoni, the Corporation be recommended to inform the applicants that the works have already been taken out of the contractors' hands, and are being carried out departmentally, but that no action can be taken by the Municipality in respect of the alleged nuisance caused by the hammering of blacksmiths and the smoke from their shops."

No. 13789. *Resolved*: "That the following be *recorded*:—Memorandum No. 28125, dated 8th instant, from the Commissioner, forwarding analyses of water as under:—

Unfiltered Tulsi water taken from the inlet well of Malabar Hill Reservoir on 28th February 1895.

	Parts per million.
Free Ammonia	·04
Albuminoid Ammonia	·22

Unfiltered Tulsi water taken from the settling basin (close to the overflow) of Malabar Hill Reservoir on 28th February 1895.

	Parts per million.
Free Ammonia	·03
Albuminoid Ammonia	·20

Unfiltered Vehar water taken from inlet channel of the Bhandarwada Reservoir on 28th February 1895.

	Parts per million.
Free Ammonia	·02
Albuminoid Ammonia	·16

Filtered Vehar water taken from filter channel of the Bhandrawada Reservoir on 28th February 1895.

	Parts per million.
Free Ammonia	·04
Albuminoid Ammonia	·10

Tansa water from the strained water basin at Ghatcoopar Siphon Head on 1st March 1895.

	Parts per million.
Free Ammonia	·01
Albuminoid Ammonia	·11"

The following return was read and *recorded*:—

Return of fires at Parel, G. I. P. Ry. Work shops, Clerk Road, Do. Falkland Road, Kamathipura

Centre Road, Parel Road, the New G. E. Mill, Neapean Sea Road and Gowalia Tank Road, forwarded with the Commissioner's memorandum No. 27815, dated 4th March 1895.*

The following statement† was laid on the table :—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 10th March 1895.

No. 13791. *Resolved* : "That the consideration of memorandum to the Secretary, No. 28201, of 9th instant, from the Commissioner, on the question of Police charges, be postponed until next week, and that in the meanwhile the papers forwarded therewith be circulated."

No. 13792. *Resolved* : "That memorandum to the Secretary, No. 28359, dated 12th instant, from the Commissioner, be forwarded to the Corporation, with the recommendation that the total excess on the Budget grants for water consumed for municipal purposes during the past year, principally by the Health Department, amounting to Rs. 35,858-0-5, be adjusted as follows :—Rs. 2,363-12-3 to the debit of savings in the grants for water supply to gardens, sluices, and milch cattle stables, and Rs. 33,494-4-2 to the debit of unappropriated balances.

"That the Chairman be requested to bring this question before the Corporation as 'urgent business' at their meeting to-morrow."

BOMBAY, *20th March* 1895.

AT the Meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman.*

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., C.C.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM, C.I.E.; HURKISONDAS NURROTUMDAS, ESQ.; KAIKHOSRO N. KABRAJEE, ESQ.; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E.; CAPTAIN W. P. WALSHE.

H. A. ACWORTH, ESQ., I.C.S., Commissioner, and the Secretary.

P. C. H. SNOW, ESQ., I.C.S., was also present.

The minutes of the meeting held on the 13th instant, were signed.

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* *See* Appendix C. † *See* Appendix B.

The seal of the Corporation was affixed to deeds of contract (1) with Messrs. Ruttonjee Bapubhai & Co., for the supply of grain during 1895-96 and (2) with Messrs. Treacher & Co., for the supply of disinfectants during 1895-96 and (3) to deed of trust in respect of Government grant-in-aid of Rs. 33,500, made towards the building for Primary Schools at Bhuleshwar.

Resolved : "That as applied for by the Commissioner, in his memorandum No. 29088, dated this day, sanction be given to the cutting off of water connections as per list submitted therewith."

No. 14059.

No. 14060. Read and *recorded* the following :—

No. 23913 of 1894-95.

BOMBAY, *2nd March* 1895.

TO THE COMMISSIONER,

MEMO.—Mr. Pragji Khetsy is the manager of the Wadia Mills. After the case was reported to the Commissioner in this office, No. 21291, 26th January 1895, Mr. Pranlal K. Joshipura, the Engineer in charge of the works, informed this department that the sheds were erected in connection with the new work that is now being executed at the Mill premises with the permission of the Municipality, and requested that they may be allowed to remain until the main building work is completed. This request has been complied with, as will be seen from the accompanying copy of this office No. 22873 16th February 1895. If the sheds are not removed when the main building work is completed they will be pulled down by this department under the authority of the Standing Committee's sanction for demolition which has been applied for.

M. C. MURZBAN, Executive Engineer.

No. 22873 of 1894-95.

BOMBAY, *16th February* 1895.

TO PRANLAL KAHANDAS JOSHIPADA, Esq., L. C. E.

SIR,—With reference to your letter dated 28th January 1895, on behalf of the manager of the Wadia Mills, regarding the erection of two new sheds at the Mill premises at DeLisle Road, I have the honor to inform you that as you undertake to remove the sheds on completion of the main building work now in progress, no further action will be taken in the matter for some time by this Department.—I have, &c.,

M. C. MURZBAN, Executive Engineer.

No. 27918 OF 1894-95.

5th March 1895.

Copy forwarded to the Municipal Secretary in reference to the concluding portion of the Standing Committee's Resolution No. 12540 of the 6th ultimo.

H. A. ACWORTH, Commissioner.

No. 14061. *Resolved*: "That as applied for by the Commissioner, in his memorandum No. 28552 of 14th instant, sanction be given to the transfer of Rs. 352 from savings in the grant for II, Establishment, Commissioner's Office, to Revenue and Refund Audit Office, I, Establishment, to meet allowances payable to acting incumbents during the absence of the Revenue and Refund Officer."

No. 14062. *Resolved*: "That as applied for by the Commissioner, in his memorandum No. 28662, dated 15th instant, sanction be given to the transfer of Rs. 15 from savings in the grant for II, Clothing Account and Expenditure Budget, to same Budget, I, Establishment, to meet excess in the allowances payable to the acting incumbents during the absence of the Chief Accountant, on leave."

No. 14063. *Resolved*: "That as applied for by the Commissioner, in his Memorandum No. 28883 of 18th instant, sanction be given to the transfer of Rs. 423-13-10 from savings in the grant for II, Conservancy Branch, 10 Halalkhor Branch, A, Superintendence, to same head, 7 Rent of reclaimed ground, at Kurla, to meet excess on the latter head due to insufficient budget provision.*"

Read letter No. 28614, dated 15th instant, from the Commissioner to the Secretary, as under:—

SIR,—I have the honour to request the approval of the Standing Committee under section 91 of the City of Bombay Municipal Act to my applying to Government to acquire under Act X to 1870, the property coloured red in the accompanying tracing which is required for the new Wari Bunder Road and its frontage.

* That Health Officer states that the Budget amount of Rs. 1,624 provided is insufficient as it was calculated at the old rate of Rs. 2 per acre, for 5 months from March to July 1894, and at the increased rate of Rs. 5 for 7 months from August 1894 to February 1895. The whole amount ought to have been at the increased rate from August 1894 to July 1895 as the rent is paid in advance.

2. This property forms a very small portion of a large area of ground at the foot of Bhandarwada Hill, belonging to Mr. Anandrao Vinayak. Negotiations are now going on with Mr. Anandrao for the acquisition of the whole strip of land belonging to him.

3. Portions of the land belonging to Mr. Anandrao are, however, held by different persons on Fuzandari tenure, and the plot coloured red in the accompanying tracing is one of them, the tenant being Mr. Kavasji Pestonji Bharucha, who is endeavouring to raise the value of his property to secure a high award from the Collector, in the event of his right being acquired under the Land Acquisition Act. The Executive Engineer reports that the attempt made by him to bring about an amicable settlement of Mr. Kavasji's claim has proved unsuccessful.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved:—"That as applied for by the Commissioner, in his letter to the Secretary, No. 28644, of 15th instant, sanction be given under section 91 of the Municipal Act, to application being made to Government to acquire under the Land Acquisition Act X of 1870, the property shown in red colour on the tracing marked "A" dated this day, and filed in supplement to minute Books, the same being required for the Wari Bunder Road and its frontage."

No. 14064.

Read letter No. 28554, of 14th instant, from the Commissioner to the Secretary, as under:—

SIR,—I have the honour to state that on the 25th May 1892, the Secretary, Port Trust forwarded to me the accompanying plan showing the extra area to be maintained in the shape of roads and wharves at the Mereweather Dry Dock, and stated that the annual cost of maintenance, as estimated by the Trustees' Engineer, was Rs. 1,600, and requested me to agree to the work being carried out by the Trustees for the Municipality on payment of an annual sum of Rs. 1,200. This amount was considered by me more than what was actually required, and a long correspondence ensued between the Municipality and the Trustees on the subject. On the 31st May 1894 the Secretary, Port Trust, wrote to me that the Trustees would reduce the charge to Rs. 1,000 per annum. I considered that the compromise affected was a reasonable one, and agreed to the payment of Rs. 1,000 per annum. The Mereweather Docks were opened for use on the 3rd March 1891 and the payment is, therefore, required to be made to the Trustees from that date.

The Trustees claim Rs. 4,000 for 1891-92, 1892-93, 1893-94, and 1894-95.

It will be remembered that a rebate of a lump sum of Rs. 25,000 per annum was allowed to the Port Trust, from the 1st October 1886, out of the annual contribution paid by them towards the municipal rates and taxes on account of compensation for repairing, cleansing and lighting Port Trust wharf roads, as per Corporation Resolution No. 1722 of the 9th February 1887. This amount was increased first to Rs. 35,000, and subsequently to Rs. 37,642 per annum, from the 1st July 1889 on account of the addition of the Victoria Dock Roads, as per Corporation Resolution No. 2829 of the 7th July 1890. In the Budgets for 1893-94 and 1894-95, an extra sum of Rs. 1,200 per year was provided to meet the cost of maintenance of the wharves and roads of the Merewether Dry Dock. Out of these sums, charges for 1893-94 and 1894-95, amounting to Rs. 2,000, have been paid, leaving a balance of Rs. 400, available which, however, is not sufficient to meet the charges for 1891-92 and 1892-93, and a further sum of Rs. 1,600 is, therefore, required, which I propose to pay out of the Surplus Cash Balance, and request the sanction of the Standing Committee and the Corporation to the proposal.

The state of Surplus Cash Balance is as follows :—

Surplus as shown in the Budget Estimates for 1895-96, inclusive of the amount reserved for the probable extra grants to the end of the current financial year	Rs.	2,19,075	0 0
Out of which expenditure, excluding temporary advances to be adjusted hereafter, has been sanctioned to the extent of.....	Rs.	1,88,785	0 4
Expenditure recommended for sanction.....	Rs.	28,676	0 0
Total	Rs.	2,17,461	0 4
Balance available	Rs.	1,613	15 8

I have, &c.,

H. A. ACWORTH, Commissioner.

No. 14065.

Resolved: "That letter to the Secretary, No. 28554, of 14th instant, from the Commissioner, be forwarded to the Corporation, with the recommendation that sanction be given to an additional grant of Rs. 1,600, from Surplus Cash Balance, to meet the balance of cost of maintaining by the Port Trustees, on behalf of the Municipality, roads and wharves at the Merewether Docks during the years 1891-92, 1892-93, 1893-94, and 1894-95."

Resolved : "That the following letter be recorded :—

No. 14066. Letter to the Secretary, No. 28181, dated 12th instant, from the Commissioner, reporting that he has authorised the Executive Engineer to purchase from Messrs. G. Gahagan & Co., a tidal flap to be fixed at the mouth of the Sonapur drain at a cost of Rs. 1,270, and from Messrs. Richardson & Cruddas, 30 cast-iron shoes, pile-rings and bolts for piles to be fixed for the protection of the tidal flap during the monsoon at a cost of Rs. 510. The total Rs. 1,780 to be debited to the apportioned grant of Rs. 4,400 for the work."

Resolved : "That, as applied for by the Commissioner, in his letter to the Secretary, No. 28363, of the 12th instant, sanction be given under section 69 (*e*) of the Municipal Act to the variation of the contract with Messrs. Richardson and Cruddas for the supply of stoneware pipes, junctions, &c., for the Colaba sewerage works, whereby the period of delivery may be extended from 30th November 1894 to 6th February 1895."

No. 14067.

Considered the following :—

No. 1430 of 1895.

JUDICIAL DEPARTMENT.

BOMBAY CASTLE *1st March* 1895.

TO THE MUNICIPAL COMMISSIONER for the City of Bombay.

SIR,—As requested in your letter No. 13833 of the 17th September last, I am directed to forward to you herewith copy of a detail statement, prepared by the Accountant-General, showing the estimated charge for the City Police payable by the Bombay Municipality for the year 1895-96.

2. In forwarding this statement, I am to observe that the share of the cost of the City Police payable by the Municipality for 1895-96 has been estimated at Rs. 5,57,000 in the belief that the payment due for the current year at the increased rate referred in this Department letter No. 379 of the 18th January last, will be paid before the close of 1894-95, subject to adjustment in the ordinary course.—I have, &c.,

C. H. A. HILL,

Under-Secretary to Government.

Detail Statement showing the estimated charge for the City Police payable by the Bombay Municipality for the year 1895-96.

Minor and Detail Heads.	Amount.	Total.	Remarks.
	Rs.	Rs.	
20.—POLICE.			
Presidency Police.			
City Police.			
Superintendence—Salaries.			
Commissioner	20,400		
Deputy Commissioner	9,600		
Exchange Compensation Allowances ...	4,276		
		34,276	
Establishment.			
Clerks	10,320		
Allowances to Clerks	432		
Servants...	228		
		10,980	
Allowances.			
House-rent Allowance to Commissioner ...	3,600		
House-rent Allowance to Deputy Commissioner	1,800		
		5,400	
Supplies and Services.			
Supply of medicines	100		
		100	
Contingencies.			
Advertising charges	1,200		
Telegram charges	350		
Subscriptions to Newspapers	133		
Repairs of furniture	50		
Purchase of furniture	1,000		
Postage charges	350		
Stationary and other petty supplies ...	2,000		
		5,083	
Total Superintendence ...		55,839	
Executive Force—Salaries.			
Superintendents	37,200		
Inspectors	53,460		
Surgeon	3,600		
Exchange Compensation Allowance ...	11,210		
		1,05,580	
		1,05,580	
Carried forward ...		55,839	

Minor and Detail Heads	Amount.	Total.	Remarks.
	Rs.	Rs.	
20—POLICE.			
City Police—(*contd.*)			
Brought forward...		55,839	
		1,05,580	
Establishment.			
European Constables	48,300		
Jamadars, Havaldars and Naiks ...	43,860		
Native Constables...	2,48,672		
Steam Launch Establishment	516		
Apothecary and Assistant	1,560		
Servants	504		
Mounted Police Establishment	66,969		
Prison Van Establishment	480		
Good Service Pay	2,352		
House-rent Allowances	24,348		
		4,37,561	
Allowances.			
Fixed Travelling Allnwance to Officers.	5,100		
Travelling Allowance to men	7 40		
		12,500	
Supplies and Services.			
Maintenance of Prison Van	1,116		
Way charges of escorts	13,000		
Secret Service money	2,400		
Clothing charges	2,524		
Capitation grant for clothing	13,835		
Unexpended balance of Clothing Fund subscriptions	10,322		
Rewards to informers	500		
Petty construction	9,456		
Petty repairs	1,200		
Charges for burning carcasses of horses	1,000		
Hire of horses	520		
Arms and accoutrements	1,000		
Ammunition	300		
Purchase of horses	1,000		
Photographs of criminals	1,200		
Repairs to boats and stores	9,500		
Supply of medicines	500		
Cost of haversacks	1,000		
		70,373	
Carried forward...		6,26,014	
		55,839	

Minor and Detail Heads.	Amount.	Total.	Remarks.
	Rs.	Rs.	
20—POLICE.			
City Police—(*contd.*)			
Brought forward ...		55,839	
		6,26,014	
Contingencies.			
Rent of telephones	4,890		
Rents	56,891		
Rates and taxes	1,419		
Lighting charges	2,750		
Stationery and other petty supplies ...	1,455		
Contingencies for the Prison Van ...	182		
Water-supply	6,900		
Carriage of furniture	400		
		74,887	
Total Executive Force ...		7,00,091	
ADDITIONAL POLICE.			
Port Trust Establishment.			
Prince's and Victoria Dock Police.			
Salaries.			
Superintendent	4,200		
Inspector	1,680		
		5,880	
Establishment.			
Constable	1,320		
Jamadar	360		
Havildar	1,137		
Native Constables	10,195		
House-rent allawances	1,056		
Provision for additional Policemen ...	2,320		
	16,388		
Deduct—			
Moiety of cost of additional Policemen recoverable from Port Trust...	1,160		
		15,228	
University Police.			
Establishment.			
Constables...	512		
House-rent allowances	48		
		560	
Private Watchmen (Ramoshis)... ...	84,000		
		84,000	
Total Additional Police ...		1,05,668	
Total City Police ...		8,62,408	
Carried forward ...		8,62,408	

Minor and detail Heads.	Amount.	Total.	Remarks.
	Rs.	Rs.	
20—POLICE.			
City Police—*(cont'd.)*			
Brought forward ...		8,62,408	
Deduct—			
Three-fourths share of rent for houses supplied by the Public Works Department included in estimated gross cost	2,568		
Deduct—			
Estimated Police recoveries as below :—			
Port Trust contribution towards Harbour, Victoria and Prince's Dock Police ... ... Rs. 27,756			
University contribution towards University Police 693			
On account of Private Watchmen (Ramoshis) 93,000	1,21,443		
		1,24,011	
Cost of City Police divisible between Government and Municipality		7,38,397	
Government ¼th share		1,84,599	
Municipalities ¾th share		5,53,798	
Add—			
¼th share of rent for houses supplied by the Public Works Department as shown above ...		2,568	
		5,56,366	
Add for rounding		634	
Total Estimated share of cost of the City Police payable by the Bombay Municipality		5,57,000	

Note.—The sum of Rupees 5,57,000 is the estimated share of the cost of the City Police payable by the Bombay Municipality and is exclusive of the set-off of Rupees 10,463 due to the Municipality on account of the Victoria and Albert Museum and Maintenance of the Queen's Statue which is charged in the accounts to other heads. If this amount be deducted from the sum of Rupees 5,57,000 the net sum to be recovered from the Municipality amounts to Rupees 5,46,537, or Rupees 5,47,000 in round figures.

O. T. BARROW, Accountant-General.

No. 27754.

Chief Accountant for report with the least possible delay with particular reference to the heads of charge now included which were not included previous to 1890-91.

4th March 1895.

H. A. ACWORTH, Commissioner.

No. 5002 OF 1894-95.

BOMBAY, *6th March* 1895.

TO THE MUNICIPAL COMMISSIONER.

Up to 1891-92 the Municipality paid to Government a contribution of Rs. 3,58 748-7-0 per annum (based on the actuals for 1882) subject to deductions of Rs. 90,000 on account of the Government contribution towards the cost of the Police and Rs. 10,463 on account of the maintenance charges of the Victoria and Albert Museum and the Queen's Statue. The net contributions paid by the Municipality thus amounted to Rs. 2,58 2 57-0. 2.—From 1892-93 the contribution was increased by Government to Rs. 3,63,345. The details of this sum furnished by Government as per their letter No. 6696, dated 28th November 1892, Judicial Department, at the request of the Corporation were as under :—

	Rs.	Rs.
(1) Superintendence, *i.e.*, Commissioner of Police, Deputy Commissioner, &c., &c., and their office establishment with contingencies.	46,349	
(2) Superintendants of Police and Police constables with their contingencies...	3,78,170	
	4,24,519	
(3) Cattle Pound charges	4,872	
(4) River, Harbour and Marine Police ...	32,651	
(5) Dockyard Police	17,800	
(6) Guards for Public Buildings	13,561	
(7) Private Watchmen and Romoshis ...	74,300	
(8) Port Trust Establishment	18,743	
(9) University Police	548	
(10) Hospital charge...	7,811	
		5,94,808
	Carried over...Rs.	

		Rs.
	Brought forward...	...
Deduct—		
	Recoveries.	
(1)	Bombay Port Trust contribution towards Harbour Police	16,500
(2)	Port Trust contributions towards Victoria and Prince's Dock Police ...	23,500
(3)	Contribution from the University ...	680
(4)	Private Watchmen and Ramoshis ...	82,000
(5)	Cattle Pounds	7,670
(6)	Miscellaneous	650
		1,31,000
	Net Rs.	4,63,808
Deduct—		
	Contribution by Government	90,000
	Special contribution in lieu of the Victoria and Albert Museum maintained by the Municipality	10,463
		1,00,463
	Balance ... ... Rs.	3,63,345

3.—While sanctioning the payment of the above sum, the Corporation in their Resolution No. 11575, dated 2nd February 1893, had requested the Commissioner to inform Government that the Corporation paid such amount under protest and without waiving their claim to the refund of charges objected to by them, *viz.*, River, Harbour or Marine Police, Dockyard Police, and Guards for Public Buildings. 4.—The heads of charges similar to those given in the above letter No. 6696, which were also furnished for the budget for 1893-94, have not been given in the present letter from Government. 5.—In the absence of proper information and further details, this office is not in a position to compare with sufficient accuracy the charges paid previous to 1890-91 with those shown in the accompanying statement forwarded by Government, and to report definitely what charges included in the present statement were not included previous to 1890-91. It is also not possible to ascertain what amounts on account of charges for River, Harbour, or Marine Police, Dockyard Police, and Guards for Public Buildings are included in the present statement. 6.—With the means available on the records of this office, the accompanying contrasted statement, showing the charges paid previous to 1890-91 on the basis of the actuals for 1882 and those shown in the accompanying statement, is prepared and submitted herewith for the Commissioner's information. 7.—Some of the charges included in the statement submitted by Government, such as way charges of escorts, capitation grant for clothing, unexpended balance of clothing fund subscription, &c.

require explanation. 8.—It is also not understood why ¾th share of rent for houses supplied by the Public Works Department is deducted from the gross estimated expenditure while calculating the ¼th Government share of Police expenses. 9.—In the Budget for 1895-96 a sum Rs. 4,00,000 has been provided for Police charges. An extra provision of Rs. 1,46,000 will therefore have to be made to make up the total sum payable by the Municipality as intimated by Government. This extra sum will have to be met with the sanction of the Standing Committee and the Corporation from the invested surplus balance or by means of additional taxation as reported in para. 9 of this office No. 4306, dated 25th January 1895.

W. PEARSON,

Acting Chief Accountant.

GENERAL

Charges as per actuals for 1892.

	Rs. a. p.	Rs. a. p.
I.—Salary of the Commissioner and Deputy Commissioner including House-rent	36,465 13 6	
		36,465 13 6
II.—European Land Police	7,884 5 2	
III.—Native Land Police	1,78,952 0 0	
IV.—Native Mounted Police	18,912 0 0	
		2,69,228 5 2
V.—Office Establishment		5,184 0 0
VI.—House-rent	17,302 14 11	
VI.—Rent of Quarters belonging to the Corporation ...	8,140 0 0	
		25,442 14 11
VII.—Secret Service...		3,600 0 0
VIII.—Contingencies Stationery, Printing, &c.	4,728 12 5	
		4,728 12 5
		3,41,649 14 0

Carried forward

POLICE.

As per Statement now submitted by Government.

				Rs.	a.	p.	Rs. a. p.	Rs. a. p.
1—Commissioner				20,400	0	0		
Deputy Commissioner				9,600	0	0		
							30,000 0 0	
House-rent Allowance to Commissioner ...				3,600	0	0		
Do. do. to Deputy Commissioner				1,800	0	0		
							5,400 0 0	
Exchange Compensation Allowances ...							4,276 0 0	
								39,676 0 0
		Rs.	a.	p.				
Superintendents...		37,200	0	0				
Inspectors		5,460	0	0				
European Constables, ...		48,000	0	0				
Jamadars, Havildars and Naiks		42,860	0	0				
Native Constables ...		2,48,672	0	0				
Mounted Police Establishment		66,969	0	0				
Fixed travelling allowances to Officers ...	Rs. 5,100							
Travelling allowance to men	„ 7,400							
		12,500	0	0				
					5,10,961	0	0	
ADDITIONAL POLICE.								
PORT TRUST ESTABLISHMENT.								
Prince's and Victoria Dock Police—								
Superintendent		4,200	0	0				
Inspector		1,680	0	0				
Constable		1,320	0	0				
Jamadar		360	0	0				
Havildars		1,137	0	0				
Native Constables		10,195	0	0				
House-rent Allowances ...		1,056	0	0				
Provisional for additional Policemen	Rs. 2,320							
Less—								
Modiety recoverable from Port Trust ... „	1,160							
		1,160	0	0				
					21,108	0	0	
University Police—								
Constables		512	0	0				
House-rent Allowance ...		48	0	0				
					560	0	0	
Private Watchmen—								
Ramoshis					84,000	0	0	
							6,16,629 0 0	
Exchange Compensation Allowances ...							11,320 0 0	
							6,27,949 0 0	
Less—								
Estimated Recoveries—Port Trust Contribution towards Harbour, Victoria and Prince's Dock Police					27,750	0	0	
University Contribution towards University Police.					693	0	0	
On account of Private Watchmen Ramoshis					93,000	0	0	
							1,21,443 0 0	
								5,06,506 0 0
Establishment								
House-rent Allowances...					24,348	0	0	
Rents					56,891	0	0	
							81,239 0 0	10,987 0 0
Rates and Taxes							1,419 0 0	
								82,658 0 0
Secret Service Money								2,400 0 0
Advertising Charges					1,200	0	0	
Telegram Charges					350	0	0	
Subscriptions to Newspapers					133	0	0	
Repairs of Furniture					50	0	0	
Purchase of Furniture					1,000	0	0	
Postage Charges					350	0	0	
Stationery and other Petty Supplies ...					2,000	0	0	
							5,083 0 0	
Stationery and other Petty Supplies ...							1,455 0 0	
								6,538 0 0
Carried forward...								6,48,758 0 0

GENERAL

Charges as per actuals for 1882.

	Rs. a. p.	Rs. a. p.
Brought forward...		3,44,649 14 0
IX.—Repairs to Police Quarters, Chowkies, &c.		999 6 6
X.—Hire of Horses during Mohorum		225 14 0
XI.—Lighting Police Chowkies, &c.		1,119 8 8
XII.—Cost of Stores		2,885 13 10
XIII.—Purchase of Horses for the Mounted Officers		1,551 0 0
XIV.—Acting Allowance to European Police Officers ..		488 3 7
Public Hospital Establishment.		
I.—Salary of the Surgeon	3,600 0 0	
II.—Hospital Establishment	1,956 0 0	
III.—Medicines and Surgical Instruments	912 7 0	
IV.—Contingencies, Stationery, Printing, &c.	52 8 6	
V.—Cost of Stores	169 8 5	
VI.—Cowdunging Hospital	138 0 0	
		6,828 7 11
		3,58,748 4 6
Or say—	.....	3,58,748 7 0
DEDUCT—		
Government Contribution	90,000 0 0	
Charges for the maintenance of the Victoria Museum and the Queen's Statue	10,463 0 0	
		1,00,463 0 0
Net Contribution paid by the Municipality		2,58,285 7 0

POLICE—*continued.*

As per Statement submitted by Government.

	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought f rward...			6,48,758 0 0
Petty Repairs			1,200 0 0
Hire of Horses			520 0 0
Lighting charges			2,756 0 0
Repairs to Boats and Stores			9,500 0 0
Purchase of Horses...			1,000 0 0
Surgeon ... ... (The exchange compensation allowance is included in the sum of Rs. 11,320 shown above.)		3,600 0 0	
Apothecary and Assistant	1,560 0 0		
Servants	504 0 0		
		2,064 0 0	
Supply of medicines		600 0 0	
			6,264 0 0
Steam Launch Establishment		516 0 0	
Prison Van do.		840 0 0	
Good Service Pay		2,352 0 0	
Maintenance of Prison Van		1,116 0 0	
Way Charges of Escorts		13,000 0 0	
Clothing Charges		2,524 0 0	
Capitation Grant for Clothing		13,835 0 0	
Unexpended Balance of Clothing Fund Subscriptions		10,322 0 0	
Petty Construction...		9,456 0 0	
Charges for burying carcasses of horses		1,000 0 0	
Arms and Accoutrements		1,000 0 0	
Ammunition...		300 0 0	
Photographs of Criminals		1,200 0 0	
Cost of haversacks		1,0 0 0 0	
Rent of telephones		4,890 0 0	
Rewards to informers		500 0 0	
Contingencies for the prison van		182 0 0	
Water supply		6,900 0 0	
Carriage of furniture		400 0 0	
			70,973 0 0
			7,40,965 0 0
DEDUCT—			
Government contribution 1/4th of Rs. 7,38,397, i.e., Rs. 7,40,965—Rs. 2,568, being 1/4th share of rent for houses supplied by the Public Works Department		1,31,599 0 0	
Charges for the maintenance of the Victoria Museum and the Queen's Statue		10,463 0 0	
			1,95,062 0 0
Net Amount payable by the Municipality ...			5,45,903 0 0
Or say Rs. ..			5,46,000 0 0

No. 28201 OF 1894-95.

BOMBAY, *9th March* 1895.

TO THE MUNICIPAL SECRETARY.

Memorandum.

Copy of Chief Accountant's report, with copy of Government letter No. 1430 of 1st instant, forwarded to the Standing Committee and the Corporation. The details given by Government do not include the charges on account of Harbour and Marine Police, Government Dockyard Police, or Guards for Public Buildings, and there may be other special heads of charge not made previous to 1890-91 of which I am ignorant. I am therefore, like the Chief Accountant, not in a position to-day my views before the Standing Committee or the Corporation. The question what are and what are not "City Police" is one quite distinct from the general question at issue between Government and the Corporation, but the Corporation cannot possibly express any opinion until they are in full possession of facts, which of course they need only apply for to obtain.

H. A. ACWORTH, Commissioner.

No. 14068. *Resolved*: "That memorandum to the Secretary, No. 28201, dated 9th instant, from the Commissioner on the subject of the increased Police charges, be *recorded*."

No. 14069. *Resolved*: "That, as applied for by the Commissioner in his memorandum No. 28208, dated 9th instant, the Standing Committee approve under the terms of section 381 of the Municipal Act, of written notices being served upon Messrs. Cassumbhoy Mahomedbhoy Mitha and Rustomjee Hormusjee Patuck, the lessee, and owner, respectively, of the bullock stable, No. 28, Khetwady 2nd Street, calling upon them to fill in the well attached thereto, as the Health Officer reports that the water of the well is foul and unfit for use."

No. 14070. *Resolved*: "That the following be referred to the Commissioner for favour of report:—Letter, dated 21st instant from Mr. Pestonjee Hormasjee Chinai and others, complaining of the insanitary state of the eastern end of Fergusson Road, owing to the want of drainage thereat, stating that applicants are willing to pay the cost of constructing

a drain in connection with the sewer at DeLisle Road, provided the Municipality will undertake the supervision of the work."

No. 14071. *Resolved*: "That the report of the Sub-Committee on the question of the proposed new road from Dongarsey Road to Banganga Tank and the Commissioner's memorandum No. 29089, dated this day, be referred back to the Sub-Committee for consideration."

No. 14072. *Resolved*: "That the following be kept over for consideration of the Standing Committee to be appointed by the New Corporation at their first meeting in April."

Resolution of the Corporation, No. 13964, of 14th March 1895, as under :—

That the following be forwarded to the Standing Committee with the intimation that on their recommendation the Corporation will be prepared to sanction the outlay in question :—

Letter from the Chairman of the Committee of the Corporation appointed for the purpose of further elucidating the report made by the Health Officer under his No. 8300, dated 2nd June 1894. Stating that Rs. 500 will probably be required in connection with printing charges, and requesting sanction to the grant of that amount."

No. 14073. *Resolved*: "That a Sub-Committee, consisting of the Chairman, Mr. Rebsch, Mr. Cowasjee Hormusjee, Mr. K. M. Shroff and Captain Walshe, be appointed to report on the proposal contained in the Commissioner's letter to the Secretary No. 28809, dated 18th instant, regarding applications from certain Municipal Officers to be allowed to join the Pension Fund."

The following return was read and *recorded* :—

Return of fires at DeLisle Road (Union Mill), Bellasis Road, Sarung Street and No. 516 Kolsa Cross Lane, forwarded with the Commissioner's Memoran- No. 28676, dated 16th March 1895.*

* *See* Appendix C.

The following statement† was laid on the table :—

The statement of the height of water in the Vehar, Tulsi, Pawai and Tansa Lakes, for the week ending 19th March 1895.

Resolved : "That the following be *recorded* :—Letter
No. 14075. to the Secretary, No. 29012, dated 19th instant, from the Commissioner reporting that he has leased the bungalow at Love Grove rented from Mr. Varjiwandas Madhowdas from 5th January last, to Mr. James M. Tanish at Rs. 75 per month on the conditions mentioned in the letter."

Resolved : "That, as applied for by the Commissioner
No. 14076 in his letter to the Secretary, No. 29013 of 19th instant, sanction be given under section 69 (*e*) of the Municipal Act, to the variation of the contract with Messers. Bradbury, Brady & Co., for the supply of 1050 lbs. of dermatine valve faces, whereby the contract period for the supply of the same shall be extended to 25th February 1895."

Resolved : "That, as applied for by the Commissioner
No. 14077. in his memorandum No. 28951 of 18th instant, sanction be given to the transfer of Rs. 90 from savings in the grant for Fire Brigade Repairs to stations, to I. Establishment, Pension contribution ; II. Rent, Repairs and Miscellaneous, Telephone connections and alterations, to meet excess on the latter, head due (1) to insufficient budget provision and (2) to the cost of removal of several telephones from Police Stations to Fire Brigade Stations."

Resolved ; "That, as applied for by the Commissioner
No. 14078. in his letter to the Secretary, No. 29104, of this day, sanction be given to the acceptance of the tender of Messrs. Bhasker Shiwram and Dhondiba Hanmantrao, the lowest of the three tenders received, for the work of constructing the Fire Brigade Station at Babula Tank, at schedule rates aggregating Rs. 29,774-15-7."

† See Appendix B.

BOMBAY, 27*th March* 1895.

AT the meeting of the Standing Committee held this day, there were present :—

G. W. ROUGHTON, ESQ., *Chairman*.

BHALCHANDRA KRISHNA BHATAWADEKAR, ESQ., L.M.; COWASJEE HORMUSJEE, ESQ., .G.G.M.C.; THE HON'BLE MR. FAZULBHOY VISRAM, C.I.E.; HURKISONDAS NURROTUMDAS, ESQ.; THE HON'BLE MR. JAVERILAL UMIASHANKAR YAJNIK; KAIKHOSRO N. KABRAJEE, ESQ.; K. M. SHROFF, ESQ.; S. REBSCH, ESQ., ASSO. M.I.C.E.; ACCACIO G. VIEGAS, ESQ., L.M. & S.; R. H. VINCENT, ESQ., C.I.E; CAPTAIN W. P. WALSHE.

H. A. ACWORTH, ESQ., I.C.S., Commissioner; and the SECRETARY.

The minutes of the meeting held on the 20th instant, were signed.

The seal of the Corporation was affixed to deeds of contract (1) with Mr. Bhojabhoy Allarakhia for the supply of hay during 1895-96; (2) with Messrs. Amrutá Babaji & Co. for the construction of a storm-water drain at Dadar and Portuguese Church Road; (3) with Messrs. Richardson and Cruddas for the supply of nine cast-iron hand rollers with wrought-iron handles; and (4) with Mr. W. C. Rowe for the supply of certain articles for stamping weights and measures.

No. 14136. *Resolved*: "That, as applied for by the Commissioner in his memorandum No. 29073, dated 20th instant, sanction be given, under section 351 (2) of the Municipal Act, to the removal of the following structure built without permission:—

Name of owner.	Where.
Mr. Ibrahim Abbá Kazi	...Building to the east of his premises Nos. 21/25, Nesbit Road."

No. 14137. *Resolved*: "That, as applied for by the Commissioner in his memorandum No. 29697, dated this day, sanction be given to the cutting off of water-connections as per list submitted therewith."

Considered the following letter, No. 5206, dated 18th instant, from the Acting Chief Accountant to the Commissioner :—

SIR,—I have the honour to report that at the public auction sale of the rights of collecting squatters' fees at the different municipal markets, from 1st April 1895 to 31st March 1896, held this day, the following were the highest bids :—

Names of markets.	Names of the highest bidders.	Amount.
		Rs.
(1). Fort Market.....	Mr. Dosabhai Cursetji Itchaporia ...	1,650
(2). A. C. Beef Market and A. C. Fish and Mutton Market.	Messrs. Jivanji and Son.....	7,325
(3). Erskine Road Fish Market...	Mr. Abdul Ali Carimbhai	17,200
(4). Peddet Market.....	Messrs. Haridhas Oodhowjee and Co.	1,250
		27,425
(5). Bandora fair ground and feeding fees	Mr. Walji Hassum	59,100
		86,525

2. The right to collect fees at the municipal scales at the A. C. Markets has already been let to Mr. Rahmanbhai Hoosenbhai for Rs. 4,100, as per Standing Committee's Resolution No. 13040, dated 20th February 1895. The same amount was realized in 1894-95. (3) The total realizations, including the Rs. 4,100, amount to Rs. 90,625, being Rs. 2,240 more than those of the current year, and Rs. 3,547 more than the average realizations of the 3 years, ending 31st March 1895. (4) The offers for rights, Nos. 1 and 2, are the same as those of the current year, those for Nos. 3 and 5 are higher than the current year by Rs. 450 and Rs. 2,100, respectively, and that for No. 4 is less by Rs. 310, No offer was received for the Foras Road Market. (5). May I request the favour of your reporting these offers, which have already been sanctioned by you, for the Standing Committee's approval as required by sections 407 ()of the Municipal Act.—I have, &c.,

W. PEARSON, Acting Chief Accountant.

No. 29103, dated 20th instant.

Forwarded to the Municipal Secretary.

H. A. ACWORTH,

Commissioner.

No. 14138. *Resolved*: "That, as applied for by the Commissioner, in his memorandum No. 29103, dated 20th instant, the Standing Committee approve, under the terms of section 407 (*b*) of the Municipal Act, of the sale of the right to collect squatters' fees at different municipal markets, and fair ground and feeding fees at the Municipal Slaughter Houses at Bandora as under for one year from 1st April 1895 to 31st March 1896 :—.

Names of Market.	Names of highest bidders.	Amount of tender
		Rs.
Fort Market	Mr. Dosabhai Cursetjee Ichaporia...	1,650
Arthur Crawford Beef Market and Fish and Mutton Markets.	Messrs Jivanji & Son	7,325
Erskine Road Fish Market	Mr. Abdul Ali Kurimbhai.....	17,200
Pedder Market	Messrs. Haridas Odhowji & Co.....	1,250
Bandora Fair Ground and Feeding fees.....	Mr. Walji Hassum	59,100
		86.525

No. 14139. *Resolved*: "That the following be *recorded* :—Letter to the Secretary, No. 29197, dated 22nd instant, from the Commissioner, reporting that he has entrusted the work of repairs to the Garlick Incinerator to Messrs. Framroz Pestonjee & Co., at a total cost of Rs. 1,300, to the debit of the grant for discretional contingencies for 1895-96."

Read letter from the Commissioner, to the Secretary, No. 29315, dated 23rd instant, as follows :—

SIR,—I have the honour to request the sanction of the Standing Committee to the acceptance of the tender of Messrs. Sallay Mahomed Dharamsi & Co., for skinning dead animals, for a period of one year, from the 1st April 1895, for Rs. 13,000. Alternative tenders on three different occasions for one, three and five years were invited. On the first two occasions the results were not satisfactory, but on the third occasion four tenders were received for a period of five years. It was, however, thought advisable to invite quotations from the aforesaid four tenderers

for a period of one year. The tender recommended is the only one received for one year, but is the highest of all for five years.—I have, &c.,

H. A. ACWORTH, Commissioner.

Read the following, dated 26th instant, to the Secretary :—

SIR,—Our clients, Messrs. Hemaji Khandoji & Co., instruct us to tender for skinning dead animals at Coorla Flats for one year at Rs. 13,500 (thirteen thousand and five hundred), and we have to request you to lay this letter before the Standing Committee when the subject of the acceptance of the tender for such contract is considered. Our cheque for Rs. 1,000, sent on the 5th instant, is as deposit for such contract. Our clients were the highest tenderers for five years on the first occasion.—We have, &c.,

PAYNE, GILBERT & SAYANI.

No. 14140. *Resolved*: "That, as applied for by the Commissioner, his letter to the Secretary, No. 29315, dated 23rd instant, sanction be given to the acceptance of the tender of Messrs. Sallay Mahomed Dharamsi & Co., for skinning dead animals, for the period of one year, for Rs. 13,000, from 1st April 1895.

2. "That in reply to their letter of 26th instant, on behalf of their client, Messrs. Hemaji Khandoji & Co., Messrs. Payne, Gilbert and Sayani be informed that the question of this contract cannot be reopened."*

No. 14141. *Resolved*: "That, as applied for by the Commissioner, in his memorandum No. 29320, dated 23rd instant, sanction be given to the transfer of Rs. 120, from savings in the grant for general supervision, Health Department, 3, Contingencies, tolls on night-soil carts passing Coorla Causeway, to cemeteries, 5, stores, firewood, to meet excess on the latter head."

Considered letter No. 29247, dated 23rd instant, from the Commissioner, to the Secretary, as under :—

SIR,—With reference to my letter No. 16497, dated 13th November 1893, in which I pointed out how difficult it was to collect water tax bills due on Government bungalows occupied

* The Chairman took no part in the discussion of, and voting on, the questions of this contract.

by Government officers, and recommended a compromise under which Government should collect the bills, and also stated that Government had declined to pay arrears due on the date of the compromise, I now forward a statement of these arrears, 108 bills amounting to Rs. 557-10-0, which must be written off, and I request sanction to doing so.—I have, &c.,

H. A. ACWORTH, Commissioner.

No. 14142. *Resolved*: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 29247, dated 23rd instant, sanction be given under the terms of section 216 of the Municipal Act, to the writing off of Rs. 557-10-0, being the amount of arrears of water tax bills due by officers formerly residing temporarily in Marine Lines and Colaba, prior to the making of the arrangement referred to by the Commissioner in his said letter, as per list appended to the letter."

No. 14143. *Resolved*: "That the following be *recorded*:—Letter to the Secretary, from the Commissioner, No. 29206, dated 22nd instant, reporting that he has authorized the Drainage Engineer to purchase sixty-five $\frac{3}{4}$" reverse ball valves from Mr. W. C. Rowe, at Rs. 9-8-0 a piece; the total cost Rs. 617-8-0 to be debited to the grant of Rs. 726 for the same."

No. 14144. *Resolved*: "That the following be *recorded*:—Letter to the Secretary, from the Commissioner, No. 29165, dated 22nd instant, reporting that he sold by public auction, on the 14th idem, the mango crops in the municipal gardens, to Mr. Gangaram Hirooji for Rs. 206."

No. 14145. *Resolved*: "That, as applied for by the Commissioner, in his memorandum No. 29066, dated 20th instant, the Corporation be recommended to sanction the writing off of Rs. 986-5-4, from the live stock return of the Market Department, being the book-value of 7 bullocks sent to Pinjrapol and 4 that died during the quarter ending 28th February last."

The consideration of letter, dated 22nd instant, from Messrs. Bulkley & Co. to the Secretary, on the subject of the sewerage of Colaba and Umarkhadi was postponed until next meeting.

Resolved: "That memorandum No. 26044, dated 1st February last, from the Commissioner to the Committee, forwarding report as under, from the Water Engineer, No. 8244, dated 6th February 1895, be *recorded*:—

No. 14146.

SIR,—I have the honour to report that at about noon on Wednesday, the 30th ultimo, a 48" pipe failed on the Pogaon syphon of the Tansa Duct at miles 21, 4013 feet. Information was received in this office about 4·15, and the Assistant Engineer immediately proceeded to the place.

2. The Assistant Engineer reports "on my examining the "burst which is at 21 miles 4013 feet, I found that the pipe "which burst was resting on a masonry pillar under the bank; "10 to 12 feet high. It had burst longitudinally at the "bottom and at the top for the whole length of the pipe from "socket to spigot, and a piece 9' length was blown off from the "left side of the socket end. The casting of the burst pipe was "very good and sound and free from any flaw. Its cast No. was "2674. The cause of the burst seems to be its settlement on "the masonry pillar under this bank This settlement is how-"ever so small that it could hardly be noticed, as the burst pipe "and those on its both sides are all in one line."

3. The repair was completed at 10 p m. on Thursday, the 31st, and water turned on about midnight. It reached the south end of No. 5 siphon at 2 p.m., the north end of No. 6 at 3-45, the south end of No. 6 at 4-30, and Bhandup sluice at 7-45 on Friday morning the 1st instant. The supply was resumed in the city about 4 p.m. and from Saturday the 2nd instant, the supply has been almost as usual, but the Malabar Hill Reservoir is yet almost empty and can only gradually be refilled.

4. The pipes on Pogaon siphon (405) are $1\frac{1}{8}$" thick. The masonry pillars referred to by the Assistant Engineer were provided in high banks to prevent any general collapse of the pipes in the event of a wash out caused either by the burst of a pipe or by a flood in the monsoon.

5. I cannot trace any connection between the burst on the Bassein Creek Siphon (No. 6) on the 26th of January and this one on the 30th. The same general causes are, of course, at work over the whole line.—I have, &c,

S. TOMLINSON, M. Inst. C.E.,
Water Engineer.

No. 22162 OF 1894-95.

7th February 1895.

Forwarded to the Municipal Commissioner.

M. C. MURZBAN, Executive Engineer.

No. 26044 of 11*th February* 1895.

Forwarded to the Standing Committee.

In this case it was necessary to warn the City by advertisement in the newspapers that the water-supply would be curtailed for a while, and this was done. Complaints are inevitable, but as I have long ago pointed out the remedy for these mishaps, viz., a connection between Vehar and the Tansa main and extensions in the City, I am not responsible for present or future inconvenience. The responsibility is with the gentlemen who have contrived to delay the matter.

H. A. ACWORTH, Commissioner.

Resolved: "That the following be laid on the table :—

No. 14147. Letter to the Secretary, dated 25th instant, from Messrs. Ardaseer Framji Moos and Nanabhai R. Ranina, stating that they have audited the weekly statements of receipts and disbursements at the end of each week for the month of February last, and compared them with the general and subsidiary ledgers and journals and found them correct. Forwarding the usual summary and statement of their scrutiny of accounts."

Resolved : "That the following papers be forwarded

No. 14148. to the Corporation with reference to their resolution No. 12418, dated 31st January last, for information :—

No. 26410 of 16-2-95.

Copy of Standing Committee Resolution No. 12560, dated the 6th instant, forwarded to the Special Drainage Engineer for favour of report. At back of the Standing Committee Resolution No. 7020, of the 27th February 1889, there is a remark made by the then Commissioner, "I will discuss this with Mr. Smith in office." There does not appear anything more on the records of this office, the resolution is simply filed.

H. A. ACWORTH, Commissioner.

No. S. D. 3328 of 18*th March* 1895.

To the Municipal Commissioner.

Sir,—With reference to your No 26410, dated 16th February 1895, I have the honour to observe that after this lapse of time I cannot recall to mind the particulars of any distinct discussion with Mr. Ollivant upon the subject.

I fail to see, however, what opinion the Municipal Commissioner would have been likely to give to the Standing Committee in February 1889 beyond that which had been given to the Corporation in October 1888 under the Commissioner's No. 13562 of 30th October 1888.—I have, &c.,

JAMES W. SMITH, Special Drainage Engineer.

No. 29319 OF 23*rd March* 1895.

Copies forwarded to the Standing Committee in reference to their Resolution No. 12560 of the 6th ultimo.

H. A. ACWORTH, Commissioner.

Extract from the proceedings of the Corporation of the 19th November 1888 :—

Read letter No. 13562, dated 30th ultimo, from the Acting Municipal Commissioner, to the President, as follows :—

SIR,—With reference to Corporation Resolution No. 4688, dated 8th October 1888, I have the honour to forward a memo. on the order in which sewerage works should be taken up in future.

It should be explained that the choice of the sections in which pipe sewers have been already laid down, has depended on the areas which, from their general level, could be best drained into particular main sewers.

The boundaries of these areas are naturally irregular depending on the water-shed.—I have, &c., F. L. CHARLES, Acting Municipal Commissioner.

Sewerage.—It is impossible to lay down with certainty a scheme to be strictly adhered to for the future, because the necessity for drainage depends on the fluctuations of population.

For instance, ten years ago, no scheme of drainage could have been foreseen or prepared for, the Ripon Road district, whereas new houses are springing up rapidly on all sides. Similarly it would be out of the question to fix the exact order in which the sewerage of Matunga, Dharavi, Wadala, and other outlying districts should be taken up. The Municipality must be guided by the most pressing necessities at the time, and it is impossible now to predict which district will most urgently require the extension of the sewerage scheme in the future.

The districts which now most urgently require sewerage are—

1. The newly built over area along the Colaba Causeway.

2. Parts of Umarkhari, Khara Talao, Bhuleshwar, Mazagon, Ghorupdev and Parel.

The Corporation have already sanctioned Rs. 11,700 for the preliminary survey of these districts, and the survey is in progress. The area to be dealt with is a large one, and it will probably be divided into sections according to levels.

3. The portions of the old Race-course and the land north of Bellasis Road which have been built-over.

It is hard to say which of these three areas requires sewerage most, but the surveys for 2 and 3 will take time, whereas a scheme for No. 1 (Colába Causeway) can be got ready soon. The area to be dealt with being comparatively a small one, so that I think Colaba should be taken in hand as soon as the scheme now being prepared is ready.—F. L. CHARLES, Acting Municipal Commissioner.

Proposed by Thomas Blaney, Esq., seconded by Kaikhusro N. Kabraji, Esq.—

"That letter No. 13562, dated 30th October 1888, from the Acting Municipal Commissioner, regarding the districts of the city which most urgently require to be sewered, be referred to the Standing Committee for favour of remarks."

No. 5296.

Carried.

Read letter No. 29435, dated 25th instant, from the Commissioner to the Secretary, as under :—

SIR,—In continuation of my No. 21221 of 14th December last, I have the honour to recommend that all monies due to Messrs. Simpson & Co. on account of the Love Grove Pumping Engines be now paid over to them and their connection with the machinery be finally closed. (2.) The points at issue are (*a*) the replacement of cracked delivery frames. (*b*) A claim by the Municipality of Rs. 1,600 on account of new pump rods. (*c*) A claim by Messrs. Simpson & Co. of £475-14-6 on account of valve faces and sundry charges in connection therewith. (*d*) A small claim by the Municipality (Rs. 75) on account of rocking lever shafts. (3.) Claims (*b*) and (*c*) I propose, and Messrs. Simpson agree, should be written off against each other. I do not think we could compel them to pay for the worn-out pump rods. As to this the Executive Engineer writes in his No. 19017 of 19th December last, and I concur in all he says.

"The question is whether the charge for the renewal of the "rams or rods could be sustained. I have serious doubts that it

"could . . . The manufacturers were told to supply us "with a particular type of pump and this they have done . . "In this type of pump, rams and rods are indispensable: These "rams and rods are made of the best and most expensive mate- "rials and so far, the manufacturers have performed their part. "If the rams and rods wear out by the admission of silt, it is "not their fault." I have ordered one of the worn pump rods to be placed in the Council Hall that members may see how it is eaten down by the silt passing through the pumps. We may reckon on this as a recurring, though not heavy, expense until steps have been taken to intercept the silt. Plans and estimates for this important work will shortly be submitted. The Corporation will, therefore, doubtless agree with me that we are every way the gainers by foregoing our claim on account of the rods in return for the manufacturers foregoing their much heavier claim on account of the valve faces. (4.) The cost of making a new rocking lever shaft for engine No. 4 and refitting the keys of engine No. 3 is so insignificant as to be hardly worth mention, but it will be recovered from the contractors. . .

5. As regards the delivery frames, the makers have supplied sufficient new frames "to replace all broken ones," and Mr. Hewett reports that "future breakage will be very slight," which means that ordinary wear and tear is all that has to be looked forward to. "Spring washers," if I may use a technical term, have been adopted and have "effectually put a stop to the former slacking out of the bolts."

6. The upshot is that the machinery is in all respects as perfect as it can be made, while the proposal for the settlement of outstanding claims is in every way favourable to the Municipality. There is, therefore, no justification for the further retention of the contractors' monies. I recommend, therefore, that their deposit be returned, and all other monies due to them be paid over, the claims against each other of the Municipality and the contractors being written off as proposed.—I have, &c.,

H. A. ACWORTH,
Commissioner.

No. 14149. *Resolved*: "That, as applied for by the Commisisioner in his letter to the Secretary No. 29435, dated 25th instant, sanction be given, under

section 69 (*e*) of the Municipal Act, to the variation of the contract with Messrs. Simpson & Co., the contractors, for the supply of Pumping Engines for the Love Grove Station, whereby (1) the claim of the Corporation for Rs. 1,600 on account of new pump rods shall be set off against the contractors' claim for £475-14-6 on account of valve faces and sundry charges in connection therewith. (2) That the Municipal claim of Rs. 75 on account of a rocking lever shaft for engine No. 4 and of refitting the keys of engine No. 3 be recovered from the contractors. (3) That the machinery be taken over from the contractors. (4) That their deposit money be returned to them, and (5) That all further monies due to them be paid to them.

"That this sanction is subject to the approval of the Corporation, under the terms of their Resolution No. 7559 of 17th September 1894."

No. 14150. *Resolved*: "That the following be forwarded to the Commissioner for favour of report:—Letter to the Chairman, dated 20th instant, from Mr. Felix Leao on the subject of the sanitation of Matharpakhady."

No. 14151. *Resolved*: "That the following be forwarded to the Commissioner for favour of report:—Petition, dated 25th instant, from the residents of New Wady Lane, near Dady Sett Agiary Lane, on the subject of the lighting of the said lane. Similar applications from residents of Kandawady."

14152. *Resolved*: "That the following *be recorded*:—Memorandum No. 29270, dated 23rd instant, from the Commissioner, reporting, with reference to the Standing Committee's Resolution No. 4484, dated

3rd October 1888, the following transfers to the Municipal General fund pass book on 6th instant :—

(*a*) From the net premia, &c., on different Municipal Loans Deposit Account.	4,076	10	8
(*b*) From the Municipal Building Fire Insurance Fund Deposit Account ...	509	9	4
(*c*) From the Worn-out Mains Renewel Fund Deposit Account	509	9	4
Rs.	5,095	13	4

Also reporting, with reference to the Committee's Resolution No. 5620, dated 9th January 1889, the following transfer from one invested fund to another during the same week :—On 6th instant from the surplus cash deposit account to the Municipal Buildings Fire Insurance Fund Deposit Account 5 per cent. Municipal debentures for Rs. 3,000.*

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* The Acting Chief Accountant reports to the Commissioner that the balances remaining to the credit of the above deposit accounts, after effecting the transfer, now reported, stand as under :—

(*a*)	In 5% Municipal Debentures for ...	... Rs.	1,72,000 =	Rs.	1,72,000	0 0
	In 4% do.	„	500 =	„	500	0 0
	In Cash			„	12	10 8
				Rs.	1,72,512	10 8
(*b*)	In 5% Municipal Debentures for ...	... Rs.	19,000 =	Rs.	19,000	0 0
	In 4% do.	„	1,000 =	„	1,000	0 0
	In Cash			„	205	6 3
				Rs.	20,205	6 3
(*c*)	In 5% Municipal Debentures for ...	... Rs.	2,03,000 =	Rs.	2,03,000	0 0
	In 4% do.	„	7,000 =	„	7,000	0 0
	In Cash			„	229	12 4
				Rs.	2,10,229	12 4
(*d*)	In 5% Municipal Debentures for ...	...Rs.	16,70,000 =	Rs.	16,70,000	0 0
	In 4% do.	„	74,000 =	„	74,000	0 0
	In 3½ Government Paper for ...	... „	2,89,500 =	„	3,00,607	13 0
	In Cash			„	12,464	14 0
				Rs.	20,56,072	11 0

The following statement† was laid on the table:—

Statement of the height of water in the Vehar, Tulsi, Pawai and Tansa, Lakes, for the week ending 24th March 1895.

Resolved: "That, as applied for by the Commissioner in his letter to the Secretary No. 29647, dated 26th instant, sanction be given to the acceptance of the tender of Messrs. Sorabji Shapurji & Co. for the supply of iron castings for the period of one year at schedule rates."

No. 14153.

Resolved: "That, as applied for by the Commissioner in his Memorandum No. 29598, dated 26th instant, sanction be given to the transfer of Rs. 286-9-8 from savings in the grant for II establishment and Labour Miscellaneous Drainage, to section VII. B Water supply to Love Grove Pumping Station to meet excess on the latter head."

No. 14154.

Resolved: "That, as applied for by the Commissioner in his Memorandum No. 29646, dated 26th instant, sanction be given to the transfer of Rs. 10 from savings in the grant for section II. peons, clothing, Revenue and Refund Audit establishment to same head II. contingencies, &c, to meet excess on the latter head due to Import Duty payable to the stationery contractor."

No. 14155.

Resolved: "That, as applied for by the Commissioner in his memorandum No. 29597, dated 26th instant, and subject to the approval of the Corporation, under section 133 (2) of the Municipal Act, sanction be given to the transfer of Rs. 1,423-13-4 from savings on the grant for Town Duty Collection, Commission and Contingencies B. B. and C. I. Railway Company, to commission and contingencies, Port Trust, to meet excess on the latter head on account of Town Duty collected by the Port Trust having been larger than that estimated for in the budget."

No. 14156.

Resolved: "That, as applied for by the Commissioner, in his Memorandum No. 29738 A of 27th instant, sanction be given to the transfer of

No. 14157.

† *See* Appendix B.

Rs. 220 from savings in the grant for Section II. Miscellaneous Drainage Stores to same section smoke machine for testing vent shafts, to meet the cost of purchase of two additional smoke testing machines."

No. 14158. *Resolved*: "That as applied for by the Commissioner, in his memorandum No. 29645, dated 26th instant, and subject to the approval of the Corporation under section 133 (2) of the Municipal Act, sanction be given to the transfer of Rs. 5,260-13-1 from savings in the grant for Workshops and stores establishment to Stores Contingencies to meet excess on the latter head on account of the cost of materials used being more than was anticipated."

No. 14159. *Resolved*: "That, as applied for by the Commissioner, in his letter to the Secretary, No. 29648, dated 26th instant, sanction be given to the acceptance of the offer of the Manager Gas Company for the supply of gas coke at Rs. 21 per ton, during 1895-96. That under the terms of section 72 (3) of the Municipal Act, the Standing Committee dispense with the invitation for tenders which would otherwise be necessary as the Gas Company are the only manufacturers of coke in Bombay."

No. 14160. *Resolved*: "That the following be *recorded*:—Letter to the Secretary, No. 29572, dated 26th instant, from the Commissioner, reporting that he has authorized the work of erecting the Shone and Ault's patent vent shafts being entrusted to Messrs. Richardson and Cruddas at a total cost of Rs. 980."

No. 14161. *Resolved*: "That the following be *recorded*:—Letter to the Secretary, No. 29512, dated 26th instant, from the Commissioner, reporting that he has authorized the purchase from Mr. W. C. Rowe, of machines for stamping weights and measures for the market department at a total cost of Rs. 1,211-7-5 to the debit of the grant of Rs. 2,000 for the same provided in the Budget for 1893-94."

No. 14162. *Resolved*: "That the following be *recorded*:—Letter to the Secretary, No. 29511, dated 26th instant, from the Commissioner, reporting

that he has sold by public auction the rights of fishing for one year ending 31st March 1896, in (*a*) Warli channel and sluices and Tank at Mingulmandli (*b*) Dharavi sluices, the former to Pudma Budia for Rs. 410 and the latter to Pasku Anton for Rs. 25.*"

No. 14163. *Resolved* : "That as applied for by the Commissioner, in his memorandum No. 29711, dated 27th instant, sanction be given to the transfer of Rs. 100 from savings in the grant for general supervision, Health Department, Budget Section 3 contingencies, tolls on night soil carts passing Coorla Causeway, to the grant for markets and slaughter houses, section 9 contingencies, to meet excess on the latter grant."

No. 14164. *Resolved* : "That with reference to the Committee's Resolution No. 12165, dated 30th January last, and as applied for by the Commissioner, in his letter to the Secretary, No. 29431, dated 25th instant, sanction be given under section 69 (*e*) of the Municipal Act, to the variation of the lease with the Commissioner of Police, of a plot of ground at Warli, admeasuring 7·11 square yards, as shown in the tracing marked "A," dated 30th January last, and filed in supplement to minute books whereby the rental chargeable shall be Rs. 0-7-1 per annum, instead of Rs. 0-2-7 per annum, the chauki to be removeable at 3 months' notice."

H. WYNFORD BARROW,
Municipal Secretary.

STANDING COMMITTEE OFFICE,
BOMBAY, *April* 1895.

* The amounts realized last year were Rs. 410 and Rs. 30 respectively.

Appendix A.

Health Officer's Report for the First Quarter of 1894.

Exclusive of still-born 6,733 deaths were registered, being 1,399 more than in the last quarter, 1,343 more than in the corresponding period of the last year, and 692 more than the average of the preceding five years. The death-rate calculated on the Census of 1891 is equal to 32·77 per 1000 of population.

In connection with the enhanced mortality in this quarter, the following letters of mine will be of interest. In a letter of the 17th January 1894, to the Municipal Commissioner, I wrote :—

"I regret to have to report that there is a severe epidemic of "Foot and Mouth disease amongst the cattle in this city. There "are now in Hospital 134 bullocks of the Health Department "in isolation and under treatment, and we have had before at "one time as many as 285 under treatment."

"There are grounds for apprehending that this Epidemic "amongst cattle may be followed, as it has been followed before, "by much sickness towards the end of the year amongst human "beings. I suggest that the Standing Committee be informed of "the Epidemic."

In another letter of the 30th January 1894 to the Municipal Commissioner, I wrote :—

"In reporting the occurrence of an Epidemic of Foot and Mouth "disease, I merely intended to report a fact and the import of that "fact, in my opinion, to this city. Were I now to discuss the re-"lation that has been observed in this Island between the occur-"rence of zymotic diseases amongst human beings and amongst "animals, I should have to repeat much that I have written "since 1874, when I first discovered Rinderpest to have occurred "in Bombay. Rinderpest had not up to that time been reported "in Bombay, and the first Commission of Veterinary Officers "disagreed with the opinion I had come to, but a subsequent "Commission agreed with and confirmed the opinion I had "given; and in consequence special powers were given to the "Health Officer to seize all animals suffering from Rinderpest "and remove them to the special hospital I had opened on the "Flats. These powers have from time to time been given to "me in order to deal with infectious diseases amongst cattle.

"The special measures adopted by me in 1874 are referred to "in the reports of that year on the health of the city. I do "not think these special measures are necessary at this time. "There have been since my former report of the 17th instant "a number of cases of Rinderpest, and the disease is under "observation. Should it increase to Epidemic proportions—not "probable considering the period of the year, I would recom- "mend that Government be asked to sanction the special "measures that have been adopted before in former years "and I should be prepared to open a special hospital as has "been done before. The removal of cattle from the charge of "the people who own them, is a measure which requires great "care and prudence, and the people themselves must be satisfied "of the necessity of so special a measure.

"There is one condition that has developed since the licensing "of stables has been transferred from the Health Depart- "ment. It is this, stables being licensed have to be constructed "in accordance with a series of excellent bye-laws, drawn up by "the Health Department, the consideration of which has lately "been under a Committee of the Corporation. The effect of "having bye-laws and of licensing stables is to cause a con- "centration of animals in a few stables and all the effects "of concentration. I am almost beginning to think that "our well-meant efforts instead of doing good may do "more harm than good; in other words, the benefits from our "bye-laws in one direction are not equal to the dangers "caused by concentration. The great importance as I have "ventured to predict in my former letter, to the city of the "occurrence of cases of epidemic disease amongst animals is, "that it indicates conditions which in my experience have "generally been followed by great sickness amongst human "beings; this is the chief importance of the occurrence of an "Epidemic amongst cattle in the city, for the mortality amongst "cattle in this city from Foot and Mouth disease is not more "than one per cent. and further nearly all of the population only "use milk after it has been boiled. Epidemics of Foot and "Mouth disease and Rinderpest in this city follow the periodi- "city of small-pox.

"I have in former reports again and again demonstrated "that Epidemic states amongst animals or human beings have "always been synchronous with epidemic conditions and "influences in the country around. The experience of this year "is a further confirmation of this opinion. When, I went to "Poona in December 1893 to select bullocks, I saw animals "brought into Poona suffering from Foot and Mouth disease. "Of the forty-two bullocks I purchased in December 1893, "three were attacked with Foot and Mouth disease on the way to "and before arriving in Bombay. They all recovered. I have

"stated in my former report "that there are grounds for "apprehending that the Epidemic may be followed, as it "had been followed before, by much sickness towards "the end of the year amongst human beings." Such is the "forecast I have ventured. I am asked to report for the "Committee's next meeting "(1) the nature of the sick- "ness among human beings which is to be apprehended. from "the Epidemic of Foot and Mouth disease among cattle, and (2) as "to the means which should be adopted for the prevention of the "said sickness." "The diseases from which I anticipated a high "mortality are—cholera—diseases of the Digestive system and "Febrile types. I have never known an Epidemic in this "city causing an enhancement of mortality in which the in- "crease of mortality was confined to one cause. We know that "the effects of abnormal seasons on the public health are many. "An unfavourable state of the general health of the population "will be indicated by a high mortality from many disease causes. "Since I wrote my warning of the 17th instant, cases of small- "pox have become prevalent; in one building in Parel as many "as 10 cases have been found.

"The practical question arises in regard to the measures to be "adopted. These measures are—general sanitation such as is now "enforced and to forward these measures I do not think an "additional establishment or expenditure except for one purpose "is at present necessary. Under my letter No. 26514 of the 7th "December 1893, I asked for an establishment to work the hand "engine used for flushing and cleansing gullies and the sides of "buildings, and I think this establishment ought to be employed "at once. But beyond the measures of house and street sanita- "tion, there is a measure of supreme importance which "should be considered, and that measure is the adjustment "of the water supply to the state of the drainage. "There is the startling fact which I discussed in the last "Annual Report, that the quantity of sewage pumped "out of the Island is about 21 million gallons while the quantity "of water delivered in the city is about 29 million gallons or "more daily. I must refer to the last Annual Report page "382, wherein I wrote as follows on this important question :—

"There has been an enormous increase of the water supply "since 1892, from some 16½ million gallons to about 29 "million gallons or more daily and very little increase in "the number of drains. The island is flooded and irrigated "with water, and unless drains are constructed to take away "the water that comes into the city, the life of a "healthly population will not be possible; what has been seen "in the countries of marsh and wet, poisoning of life from "Malarial Fevers—will be seen here. It is not possible to look "to the future except with anxiety. There has been, with in-

"complete drainage an enormous quantity of water—some five or "more million gallons of water daily which the pumping power "has been unable to remove, a floating balance indicating "danger; and there must be still, even with perfect pumping "power, an enormous quantity of water which will not flow away, "and will not be carried to the drains because in more than "half the island there are not drains. I hope much in the "future from the new and powerful pumps and the increased "pumping power which, it is believed, they will give, but drains "must be constructed to carry the water to the tributaries of the "the pumps. However powerful the pumps may be, there "must be drains in the districts which have no drains, if the "pumps are to remove the water and the drainage from the "district. The first principle of the preservation of public health "is, that the water coming into the city should be taken away "and not left in the soil, and this first principle has been neg-"lected in Bombay. Even the water currents round the island "have been obstructed by the causeways and embankments at "Bandora and Coorla."

"In conclusion, I can only say that this important question of "the difference between the water coming in and going out of "the city is the most important of all the questions now affect-"ing the public health, and it should be seriously considered "at once."

Examining the statistics according to place of birth, we find that 3,354 persons, including still-born, were born in Bombay, that 3,663 were born out of Bombay, and that the place of birth of 69 persons could not be ascertained.

The Fever mortality is 392 more than in the preceding 3 months, 285 more than in the corresponding quarter of the last year, but 230 less than the average of the last 5 years. Of the total deaths from Fevers 1,295 were referred to Remittent Fever, being 327 more than in the last quarter, and 216 more than in the corresponding period of the past year; 220 were ascribed to Simple Continued Fever, being 48 more than in the last quarter and 67 more than in the corresponding period of the past year; 74 were ascribed to Ague, being 17 more than in the last quarter and 6 more than in the corresponding months of the last year; 2 were referred to Enteric Fever, being 4 less than in the corresponding quarter of the last year. In all 1,591 deaths were ascribed to Fevers.

The mortality from Small-pox is 157 more than in the past quarter, and 129 more than in the corresponding months of the past year.

From Measles, 236 deaths were registered being 204 more than in the last quarter, and 164 more than in the corresponding period of the past year.

The deaths from diseases of the Respiratory system were 424 more than in the last quarter and 284 more than in the corresponding months of the past year; 1,499 deaths were registered in all, of these 880 were ascribed to Bronchitis being 241 more than in the last quarter and 157 more than in the corresponding period of the last year; 377 were ascribed to Pneumonia being 107 more than in the last quarter and 77 more than in the corresponding period of the last year.

From diseases of the Digestive system 657 deaths were registered, being 144 more than in the last quarter, and 81 more than in the corresponding period of the past year. To Diarrhœa 313 deaths were referred, being 65 more than in the last quarter, and 48 more than in the corresponding months of the past year. To Dysentery 148 deaths were due, being 29 more than in the last quarter, but 17 less than in the corresponding period of the last year. To all other diseases of the Digestive system 196 deaths were referred, being 50 more than in the last quarter and 50 more than in the corresponding period of the past year.

The mortality from Phthisis is 36 more than in the last quarter and 27 more than in the corresponding period of the past year.

To affections of the Nervous system 550 deaths were ascribed, being 63 less than in the last quarter, but 129 more than in the corresponding period of the last year.

There were 23 deaths from Puerperal fever.

No death from Hydrophobia was registered.

From diseases of the Generative system 63 deaths were registered, being 12 less than in the past quarter, but 20 more than in the corresponding period of the past year.

To diseases of the Circulatory system 50 deaths were referred being 5 less than in the past quarter, and 19 more than in the corresponding quarter of the last year.

11. 6 deaths were registered under the head of Leprosy, being 13 less than in the last quarter, but 2 more than in the corresponding period of the last year.

To the general affection Dropsy 34 deaths were ascribed, being 7 less than in the last quarter, and 27 less than in the corresponding quarter of the last year.

From diseases of the Urinary system 26 deaths were registered, being 6 more than in the last quarter, but 4 less than in the corresponding period of the last year.

To diseases of the Organs of Locomotion and Cellular Tissue 25 deaths were referred, being 3 more than in the last quarter and 7 more than in the corresponding period of the past year.

5 deaths were referred to affection of the Cutaneous system, being 3 less than in the corresponding quarter of the last year.

11 Premature births were registered, being 6 more than in the last quarter.

The deaths from Old age and Debility were 72 more than in the last quarter; 582 were registered.

The deaths from Accidents and Violence amounted to 90, being 2 more than in the last quarter, but 13 less than in the corresponding period of the past year. 13 deaths were ascribed to poisoning, being 4 more than in the last quarter, but 2 less than in the corresponding period of the last year. Of the deaths from Poisoning, 8 were suicidal and 4 accidental; of the latter 2 were from snake-bite. The deaths from drowning were 5 less than in the corresponding months of the past year, 9 were suicidal, 2 accidental, and in 7 instances the circumstances under which death took place were not known.

The rate of mortality amongst the chief races living in the city is shown below:—

	Annual rate per 1,000 of Population.
Hindus	29·25
Hindu low caste	50·65
Mussulman	43·48
Parsees	22·08
Europeans	21·61

The infant mortality is 740 more than in the last quarter, and 817 more than in the corresponding period of the past year. 2,718 children under 4 years of age died.

	No. of deaths.	Annual rate of mortality per 1,000 of Population.
Under 1 year	1,755	277·56
„ 2 years	592	175·36
„ 3 „	245	69·29
„ 4 „	126	38·97

At the Burying and Burning grounds of the city 4,479 bodies were buried, 2,320 burnt and 287 conveyed to the Towers of Silence.

3,726 living births, 1,911 male, and 1,815 female, and 353 still-born births were registered, being 451 less than in the last quarter, but 216 more than in the corresponding quarter of the last year. The proportion of males to females by the last Census was as 170·60 to 100, and assuming that there were 100 males to 100 females the birth-rate would be equal to 30·92.

T. S. WEIR,
Health Officer.

APPENDICES.

TABLE SHOWING THE NUMBER OF DEATHS and the Annual Rate of Mortality during the First Quarters of 1893 and 1894.

Ward.	SECTION.	Number of Deaths, exclusive of Still-born in 1893.	Annual Rate of Mortality per 1,000 of population.	Number of Deaths, exclusive of Still-born in 1894.	Annual Rate of Mortality per 1,000 of population.
A	Upper Colaba	33	30·45	29	26·75
	Middle and Lower Colaba ...	75	22·02	94	27·60
	Fort, Southern	5	5·06	9	9·11
	„ Northern	189	23·01	194	23·62
	Esplanade	23	9·14	38	15·10
B	Mandvi...	276	29·60	335	35·92
	Chukla...	274	34·04	320	39·75
	Oomarkhari	413	31·48	516	39·33
	Dongri	170	22·42	256	33·77
C	Market...	226	20·20	300	26·81
	Dhobi-Talao	278	27·33	326	32·64
	Fanaswadi	117	19·44	107	17·78
	Bhuleshwar	235	24·50	305	31·80
	Khara Talao	237	35·06	283	14·87
	Kumbharwada	235	29·18	322	39·98
D	Khetwadi	140	19·43	187	25·95
	Girgaum	187	27·70	264	39·11
	Chaupati	21	7·29	49	17·02
	Walkeshwar	38	11·70	48	14·78
	Mahalakshmi	58	13·63	71	16·69
E	Mazagon	189	22·47	273	32·46
	Tarwadi	88	16·50	91	17·09
	2nd Nagpada	214	45·60	255	54·34
	Kamathipura	295	40·40	346	47·39
	Tardeo	170	35·82	216	45·52
	Byculla...	321	27·08	439	37·04
	1st Nagpada	92	33·05	101	36·28
F	Parel	277	38·55	312	43·42
	Sewri	45	29·68	46	30·34
	Sion	109	22·24	106	21·63
G	Mahim	125	27·01	166	35·88
	Worli	116	18·20	161	25·26
Water Division		17	3·07	9	1·62
Non-resident and unknown ...		107	...	159	...
Total.....		5,390	26·23	6,733	32·77

TABLE OF BIRTHS AND DEATHS for the First Quarter of 1894.

MONTHS.	Births.	DEATHS.										Barometer.	Temperature of Air.	Dew-point.	Humidity of Air.	Total fall of Rain at Colaba.
		Small-pox.	Measles.	Cholera.	Fevers.	Digestive System			All other Causes.	All Causes except still-born.	Annual rate of mortality per 1,000 of population.					
						Diarrhœa.	Dysentery.	All other Diseases under Digestive System.								
January	1,405	16	36	1	453	111	60	55	1,331	2,063	30·12	29·928	76·1	64·8	·69	·22
February	1,186	64	73	1	575	88	43	62	1,414	2,320	33·87	·919	77·7	66·7	·70	...
March	1,135	89	127	2	563	114	45	79	1,331	2,350	34·31	29·854	80·4	69·7	·71	·06
Total...	3,726	169	236	4	1,591	313	148	196	4,076	6,733	32·77	29·900	78·0	67·0	·70	·28
Corresponding Quarter...	3,510	40	72	7	1,306	265	165	146	3,389	5,390	26·23	29·904	75·2	64·0	·69	·14

TABLE SHOWING the number of Children successfully and unsuccessfully vaccinated, the number whose vaccination has been postponed, and the number certified to be insusceptible of successful vaccination during the First Quarter of 1894.

QUARTER.	Number of Children successfully Vaccinated.			Number of Children unsuccessfully Vaccinated.	Number of Children whose Vaccination has been postponed.	Number of Children certified to be insusceptible of successful Vaccination.	REMARKS.
	Under 1 year.	Under 14 years.	Total.				
1st Quarter of 1894	5,366	999	6,364	75*	94	Nil.	*The unsuccessful result refers to "primary operations" only.

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Health Officer's Report for the 2nd Quarter of 1894.

THE health of the City during this quarter has not been as favourable as in the preceding three months of the year. The total enhanced mortality is due to an increased mortality from Measles, Cholera, Small-pox and Diarrhœa.

Exclusive of still-born 7,190 deaths were registered, being 457 more than in the last quarter, and 690 more than in the corresponding quarter of the last year. The death-rate is equal to 34·99 per 1,000 of population calculated on the Census of 1891.

Examining the Statistics according to place of birth, we find that 3,835 persons including still-born were born in Bombay; that 3,697 were born out of Bombay; and that the place of birth of 57 persons could not be ascertained.

The Fever mortality is 41 more than in the last quarter, but 437 less than in the corresponding months of the past year, and 247 less than the average of the preceding five years. Of the total deaths from Fevers 1,335 were ascribed to Remittent Fever, being 40 more than in the last quarter, but 335 less than in the corresponding quarter of the past year; 234 were due to Simple Continued Fever; being 14 more than in the last quarter, but 80 less than in the corresponding quarter of the last year; 57 were referred to Ague, being 17 less than in the last quarter and 24 less than in the corresponding quarter of the last year; 6 were due to Enteric Fever, being 4 more than in the last quarter and 2 more than in the corresponding period of the last year. In all 1,632 deaths were ascribed to Fevers.

The mortality from Small-pox is 116 more than in the preceding 3 months, and 166 more than in the corresponding months of the past year.

From measles 399 deaths were registered, being 163 more than in the last quarter and 255 more than in the corresponding quarter of the last year.

The mortality from Cholera is 118 more than in the last quarter and 66 more than in the corresponding quarter of the past year. There were 144 cases of which 122 proved fatal.

The deaths from diseases of the Respiratory System were 87 less than in the last quarter, but 232 more than in the corresponding period of the last year. 1,402 deaths were registered under the head of the diseases of the Respiratory System, of these

900 were ascribed to Bronchitis, being 20 more than in the last quarter and 239 more than in the corresponding period of the past year; 309 were referred to Pneumonia, being 68 less than in the last quarter, but 32 more than in the corresponding period of the last year.

From diseases of the Digestive System 756 deaths were registered; being 99 more than in the last quarter and 231 more than in the corresponding period of the last year. To Diarrhœa 415 deaths were ascribed, being 102 more than in the last quarter and 138 more than in the corresponding period of the last year. To Dysentery 146 deaths were due, being 2 less than in the last quarter, but 51 more than in the corresponding quarter of the past year. To all other diseases of the Digestive System 195 deaths were referred, being 1 less than in the last quarter but 42 more than in the corresponding quarter of the last year.

To affection of the Nervous System 592 deaths were ascribed, being 42 more than in the last quarter and 127 more than in the corresponding quarter of the last year.

There were 14 deaths from Puerperal Fever.

1 death from Hydrophobia was registered.

The mortality from Phthisis is 9 less than in the last quarter and 99 more than in the corresponding period of the last year.

From diseases of the Generative System 59 deaths were registered, being 4 less than in the last quarter, but 22 more than in the corresponding period of the last year.

To diseases of the Circulatory System 39 deaths were referred, being 11 less than in the last quarter and 28 less than in the corresponding period of the last year.

There were fewer deaths from Leprosy in this quarter than in the preceding quarter; 10 were registered, being 1 less than in the last quarter, but 1 more than in the corresponding period of the last year.

To general affection Dropsy 37 deaths were ascribed, being 3 more than in the last quarter, and 18 more than in the corresponding quarter of the last year.

From diseases of the Urinary System 25 deaths were registered, being 12 more than in the corresponding months of the past year.

To diseases of the Organs of Locomotion and Cellular Tissue 28 deaths were referred, being 16 more than in the corresponding period of the last year.

6 deaths were due to the diseases of the Cutaneous System.

11 Premature Births were registered.

538 deaths were referred to old age and debility, being 44 less than in the last quarter and 92 less than in the corresponding quarter of the past year.

The deaths from Accidents and Violence amounted to 106, being 16 more than in the last quarter and 13 more than in the corresponding period of the last year; 16 deaths were ascribed to Poisoning, being 3 more than in the last and in the corresponding quarters of the last year. Of the deaths from Poisoning 14 were suicidal and 2 accidental; of the latter one was from Snake-bite. The deaths from Drowning were 12 more than in the last quarter and 10 more than in the corresponding months of the past year, 8 were suicidal, 15 accidental and in 7 instances the circumstances under which death took place were not known.

The rate of mortality amongst the Chief Races living in the City is shown below :—

	Annual rate per 1,000 of Population.
Hindus	32·50
Hindus of low caste	60·21
Mussulman	42·32
Parsees	22·50
Europeans	20·90

The infant mortality is 557 more than in the preceding quarter and 347 more than in the corresponding quarter of the last year; 3,275 children under 4 years of age died.

	No. of deaths.	Annual rate per 1,000 of Population.
Under 1 year	2,083	329·44
2 years	691	204·69
3 „	367	103·79
4 „	134	41·44

At the Burying and Burning Grounds of the City 4,986 bodies were buried, 2,317 burnt, and 286 conveyed to the Towers of Silence.

3,452 living—1,788 male, 1,664 female, and 399 still-born births were registered, being 274 less than in the last quarter and 290 less than in the corresponding quarter of the last year. The proportions of males to females by the Census of 1891 was as 170·60 to 100, but assuming that there were 100 males to 100 females the birth-rate would be equal to 28·66.

T. S. WEIR,
Health Officer.

BOMBAY MUNICIPALITY.

TABLE SHOWING THE NUMBER OF DEATHS and the Annual Rate of Mortality during the Second Quarters of 1893 and 1894.

Ward.	SECTION.	Number of Deaths, exclusive of Still-born in 1893.	Annual Rate of Mortality per 1,000 of population.	Number of Deaths, exclusive of Still-born in 1894.	Annual Rate of Mortality per 1,000 of population.
A	Upper Colaba	22	20·29	30	27·68
	Middle and Lower Colaba...	87	25·54	114	33·47
	Fort, Southern	5	5·06	11	11·13
	,, Northern	280	34·09	219	26·66
	Esplanade	45	17·88	46	18·28
B	Mandvi	354	37·96	373	40·00
	Chukla	325	40·37	287	35·65
	Oomarkhari	512	39·03	544	41·47
	Dongri	235	31·00	280	36·94
C	Market	328	29·31	281	25·11
	Dhobi Talao...	331	33·14	345	34·54
	Fanasvadi	126	20·93	138	22·93
	Bhuleshwar	274	28·59	284	29·61
	Khara Talao...	305	45·12	259	38·32
	Kumbharwada	293	36·38	328	40·73
D	Khetwadi	238	33·03	219	30·40
	Girgaum	225	33·33	254	37·63
	Chaupati	45	15·63	47	16·33
	Walkeshwar	42	12·93	63	19·39
	Mahalakshmi	60	14·10	76	17·86
E	Mazagon	221	26·27	302	35·90
	Tarwadi	106	19·90	157	29·48
	2nd Nagpada	249	53·06	255	54·34
	Kamathipura	312	42·73	411	56·29
	Tardeo	183	38·56	215	45·31
	Byculla	373	31·47	530	44·72
	1st Nagpada...	108	38·80	95	34·13
F	Parel	326	45·37	380	52·88
	Sewri...	32	21·11	66	43·54
	Sion	113	23·06	120	24·48
G	Mahim	104	22·48	148	31·99
	Worli...	97	15·21	162	25·41
Water Division		21	3·79	22	3·97
Non-resident and unknown ...		123	...	129	...
	Total.....	6,500	31·63	7,190	34·99

TABLE OF BIRTHS AND DEATHS for the Second Quarter of 1894.

MONTHS.	Births.	DEATHS.										Barometer.	Temperature of Air.	Dew-point.	Humidity of Air.	Total fall of Rain at Colaba.
		Small-pox.	Measles.	Cholera.	Fevers.	Digestive System. Diarrhœa.	Dysentery.	All other Diseases under Digestive System.	All other Causes.	All Causes except still-born.	Annual rate of mortality per 1,000 of population.					
April	1,089	121	139	8	537	144	48	68	1,378	2,443	35·67	29·788	83·4	74·4	·75	·01
May	1,176	97	160	53	620	139	52	67	1,358	2,546	37·17	·786	85·4	75·0	·71	
June	1,187	67	100	61	475	132	46	60	1,260	2,201	32·14	·640	83·4	77·4	·82	16·87
Total...	3,452	285	399	122	1,632	415	146	195	3,996	7,190	34·99	29·738	84·0	75·6	·76	16·88
Corresponding Quarter...	3,742	119	144	56	2,069	277	95	153	3,587	6,500	31·63	29·732	83·3	75·0	·77	27·79

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TABLE SHOWING the number of Children successfully and unsuccessfully vaccinated, the number whose vaccination has been postponed, and the number certified to be insusceptible of successful vaccination during the Second Quarter of 1894.

QUARTER.	Number of Children successfully Vaccinated.			Number of Children unsuccessfully Vaccinated.	Number of Children whose Vaccination has been postponed.	Number of Children certified to be insusceptible of successful Vaccination.	REMARKS.
	Under 1 year.	Under 14 years.	Total.				
2nd Quarter of 1894	3,358	622	3,980	71*	80	Nil.	* The unsuccessful result refers to "primary operations" only.

Health Officer's Report for the Third Quarter of 1894.

THE mortality is higher than that of the 2nd Quarter, and higher also than that of the corresponding quarter of the past year. The total enhanced mortality, as compared with the corresponding months of the preceding two years, will be seen below :—

	1892.	1893.	1894.
April	2,599	2,339	2,443
May	2,345	2,278	2,546
June	1,813	1,883	2,201
July	2,232	1,878	2,629
August	2,297	2,175	2,645
September	2,141	1,865	2,185

The excess mortality over the 2nd quarter is chiefly due to Phthisis, Cholera, Dysentery, Diarrhœa, diseases of the Nervous System and Old-age and Debility. The excess mortality over the corresponding quarter of the previous year is due to diseases of the Respiratory System, Fever, Cholera, Phthisis, Diarrhœa, Dysentery and diseases of the Nervous System.

Exclusive of Still-born 7,459 deaths were registered, being 269 more than in the last quarter and 1,541 more than in the corresponding period of the last year. The death-rate is equal to 36·30 per 1,000 of population, calculated on the Census of 1891.

It has been ascertained that of the total number of persons who died during the 3rd quarter, about 1,842 deaths occurred amongst persons who came from Out-stations and the duration of whose residence in Bombay was 3½ years and under. These persons would not evidently be considered to have been included in the Census of 1891 of the Town and Island of Bombay. If this number be deducted from the total number of deaths for the quarter, the annual rate of mortality would be equal to 27·34 per 1,000 of the actual population, that is, of the persons who have been residents of Bombay for over 3½ years.

It may be added that of the number 1,842, as shown in the last para., the following number of deaths occurred amongst persons who came to Bombay from the Mofussil with chronic com-

plaints contracted out of Bombay, but who added to the mortality of Bombay in no small way :—

Month.	No. of Deaths.
July	72
August	76
September	62
Total...	210

The details of these are shown in Return No. IV., annexed hereunto.

Examining the statistics according to place of birth, I find that 3,931 persons, including still-born, were born in Bombay, that 3,912 were born out of Bombay, and that the place of birth of 63 persons could not be ascertained.

The Fever mortality is 47 less than in the past quarter, but 304 more than in the corresponding months of the past year and 55 less than the average of the preceding 5 years. Of the total deaths from Fevers, 1,298 were ascribed to Remittent Fever, being 37 less than in the last quarter, but 273 more than in the corresponding quarter of the last year; 198 were due to Simple Continued Fever, being 36 less than in the last quarter and 7 more than in the corresponding quarter of the last year; 81 were referred to Ague, being 24 more than in the last quarter and 25 more than in the corresponding quarter of the last year; 8 were due to Enteric Fever, being 2 more than in the last quarter but 1 less than in the corresponding quarter of the last year. In all 1,585 deaths were ascribed to Fevers.

The mortality from Small-pox is 235 less than in the last quarter, but 20 more than in the corresponding quarter of the last year.

From Measles 103 deaths were registered, being 296 less than in the last quarter but 62 more than in the corresponding quarter of the last year.

The mortality from Cholera is 165 more than in the last quarter and 210 more than in the corresponding quarter of the last year. There were 365 cases, of which 287 proved fatal.

The deaths from Diseases of the Respiratory System were 5 more than in the last quarter and 320 more than in the corresponding period of the last year; 1,407 deaths were registered under this head, of these 923 were ascribed to Bronchitis, being 23 more than in the last quarter and 272 more than in the corresponding period of the last year; 336 were referred to

Pneumonia, being 27 more than in the last quarter and 49 more than in the corresponding quarter of the past year.

From diseases of the Digestive System 1,030 deaths were registered, being 274 more than in the last quarter and 344 more than in the corresponding period of the last year. To Diarrhœa 544 deaths were ascribed, being 129 more than in the last quarter and 162 more than in the corresponding period of the last year. To Dysentery 279 deaths were due, being 133 more than in the last quarter and 135 more than in the corresponding quarter of the last year. To all other diseases of the Digestive System 207 deaths were referred, being 12 more than in the last quarter and 47 more than in the corresponding period of the last year.

To affections of the Nervous System 705 deaths were ascribed, being 113 more than in the last quarter and 117 more than in the corresponding period of the last year.

There were 20 deaths from Puerperal Fever.

No death from Hydrophobia was registered.

The mortality from Phthisis is 179 more than in the last quarter and 190 more than in the corresponding period of the last year. Out of these, 54 occurred amongst persons who came from out-stations and died in Bombay.

From diseases of the Generative System 84 deaths were registered, being 25 more than in the last quarter and 16 more than in the corresponding period of the last year.

To diseases of the Circulatory System 38 were referred, being 1 more than in the last quarter.

13 deaths were registered under the head of Leprosy, being 3 more than in the last quarter and 4 more than in the corresponding quarter of the last year.

To general affections under the head of Dropsy, 44 deaths were ascribed, being 7 more than in the last quarter and 8 more than in the corresponding period of the last year.

From diseases of the Urinary System 16 deaths were registered, being 9 less than in the last quarter.

To Diseases of the Organs of Locomotion and Cellular Tissue 27 deaths were referred, being 1 less than in the last quarter but 5 more than in the corresponding quarter of the past year.

There were 12 deaths registered under the head of the Cutaneous System, being 6 more than in the last quarter and 4 more than in the corresponding quarter of the last year.

The number of Premature Births is 5 less than in the last year.

The deaths from Old-age and Debility were 100 more than in the last quarter but 28 less than in the corresponding quarter of the last year ; 638 were registered.

The deaths from Accidents and Violence amounted to 104, being 2 less than in the last quarter and 63 less than in the corresponding period of the past year. 11 deaths were ascribed

to Poisoning, being 5 less than in the last quarter and 1 more than in the corresponding quarter of the last year; of the deaths from Poisoning 4 were suicidal and 7 accidental, of the latter 3 were from Snake-bite. The deaths from Drowning were 2 less than in the last quarter and 5 less than in the corresponding quarter of the last year; 16 were suicidal, 9 accidental, and in 3 instances the circumstances under which death took place were not known.

The rate of mortality amongst the Chief Races living in the city is shown below :—

Races.	No. of deaths.	Annual rate of mortality.
Hindus	4,242	32·42
Hindus of low-caste	753	66·68
Mussulman	1,750	45·13
Parsees	282	23·76
Europeans	66	23·38

The infant mortality is 187 less than in the preceding quarter but 525 more than in the corresponding quarter of the last year. 3,088 children under 4 years of age died.

Ages.	No. of deaths.	Annual rate per 1,000.
Under 1 year	2,083	329·44
„ 2 years	614	181·88
„ 3 „	269	76·08
„ 4 „	122	37·73

At the Burying and Burning Grounds of the City 5,072 bodies were buried, 2,532 burnt, and 302 conveyed to the Towers of Silence.

3,931 living births, viz., 2,070 male, 1,861 female and 447 still-born children were registered, being 479 more than in the last quarter and 142 more than in the corresponding quarter of the last year. The proportion of males to females by the Census of 1891 was as 170·60 to 100, but assuming that there were 100 males to 100 females the birth-rate would be equal to 32·63.

In concluding this report I would request the attention of the Commissioner to the overcrowding in our bullock stables and in the Bigaries' chawl in Kamathipura. More suitable quarters are required for the bullocks and increased accommodation for both.

K. R. KIRTIKAR,
Acting Health Officer.

17th November 1894.

I.—RETURN OF BIRTHS AND DEATHS for the Third Quarter of 1894.

MONTHS.	Births.	DEATHS.										Barometer.	Temperature of Air.	Dew-point.	Humidity of Air.	Total fall of Rain at Colaba.
		Small-pox.	Measles.	Cholera.	Fevers.	Digestive System. Diarrhœa.	Dysentery.	All other Diseases under Digestive System.	All other Causes.	All Causes except still-born.	Annual rate of mortality per 1,000 of population.					
July	1,297	30	56	134	583	207	78	76	1,465	2,629	38·39	29·661	81·0	76·3	·86	26·16
August	1,480	15	31	131	548	191	114	62	1,553	2,645	38·62	·696	80·9	75·5	·84	8·40
September	1,154	5	16	22	454	146	87	69	1,386	2,185	31·90	·758	79·4	74·9	·86	12·04
Total...	3,931	50	103	287	1,585	544	279	207	4,404	7,459	36·30	29·705	80·4	75·5	·85	46·60
Corresponding Quarter...	3,789	30	41	77	1,281	382	144	...	3,803	5,918	28·80	29·731	80·2	75·1	·83	37·23

BOMBAY MUNICIPALITY.

II.—RETURN SHOWING THE NUMBER OF DEATHS and the Annual Rate of Mortality during the Third Quarters of 1893 and 1894.

Ward.	SECTION.	Number of deaths, exclusive of still-born, in 1893.	Annual Rate of Mortality per 1,000 of population.	Number of Deaths, exclusive of still-born, in 1894.	Annual Rate of Mortality per 1,000 of population.
A	Upper Colaba	21	19·37	31	28·60
	Middle and Lower Colaba ...	64	18·79	89	26·13
	Fort, Southern	4	4·04	8	8·09
	„ Northern	221	26·91	208	25·32
	Esplanade	55	21·86	29	11·52
B	Mandvi	371	39·79	423	45·36
	Chukla	299	37·14	280	34·80
	Oomarkhadi	443	33·77	611	46·58
	Dongri	181	23·88	261	34·43
C	Market	265	23·68	314	28·06
	Dhobi Talao	325	32·54	330	33·04
	Fanasvadi	111	19·27	155	25·75
	Bhuleshwar	254	26·48	297	30·96
	Khara Talao	242	35·80	260	38·46
	Kumbharwada	268	33·28	290	36·01
D	Khetwadi	184	25·54	218	30·26
	Girgaum	234	34·66	246	36·44
	Ghaupati	42	13·72	58	20·15
	Walkeshwar	56	17·24	76	23·40
	Mahalakshmi	58	13·63	88	20·68
E	Mazagon	222	26·39	279	33·17
	Tarwadi	105	19·72	234	43·94
	2nd Nagpada...	215	45·62	251	53·49
	Kamathipura...	265	36·29	392	53·69
	Tardeo	180	37·93	256	53·95
	Byculla	337	28·43	577	48·68
	1st Nagpada	85	30·53	89	31·97
F	Parel	263	36·60	309	43·00
	Sewri	25	16·49	33	21·77
	Sion	85	17·85	145	34·69
G	Mahim	154	33·28	197	42·58
	Worli	94	14·67	222	34·83
Water Division		15	2·70	30	5·41
Non-resident and unknown ...		175	...	173	...
	Total.....	5,918	28·80	7,459	36·30

III.—RETURN SHOWING the number of Children successfully and unsuccessfully vaccinated, number whose vaccination has been postponed, and the number certified to be insusceptible of successful vaccination during the 3rd Quarter of 1894.

QUARTER.	Number of Children successfully Vaccinated.			Number of Children unsuccessfully Vaccinated.	Number of Children whose Vaccination has been postponed.	Number of Children certified to be insusceptible of successful Vaccination.	REMARKS.
	Under 1 year.	Under 14 years.	Total.				
3rd Quarter of 1894	2,656	395	3,051	62*	91	Nil.	* The unsuccessful result refers to primary "operations" only.

IV.—RETURN SHOWING mortality in Bombay of persons who came from the Mofussil with diseases contracted out of Bombay :—

July.							August.							September.						
	Duration of residence in Bombay.			Duration of Disease.				Duration of residence in Bombay.			Duration of Disease.				Duration of residence in Bombay.			Duration of Disease.		
Date.	Year.	Mos.	Days.	Year.	Mos.	Days.	Date.	Year.	Mos.	Days.	Year.	Mos.	Days.	Date.	Year.	Mos.	Days.	Year.	Mos.	Days.
1	...	4	...	1	...	...	1	...	...	5	...	6	...	1	...	1	...	...	1	...
2	...	...	...	...	...	...	...	...	2	...	...	3	...	2	...	...	...	...	...	...
3	...	2	..	...	1	28	...	...	4	...	...	8	...	3	...	6	...	2	...	...
...	...	1	...	...	3	...	...	...	...	7	...	2	11	...	...	6	...	...	6	...
4	...	...	15	...	2	...	2	...	...	...	...	...	...	...	...	...	3	...	1	...
...	...	1	...	...	1	...	3	...	...	4	...	1	24	4	...	...	2	...	2	...
5	...	1	...	...	...	29	...	...	6	...	1	...	...	...	...	5	...	...	6	...
6	...	2	15	...	6	...	4	...	2	2	2	1	2	...	...	...	7	...	1	...
7	...	2	...	...	2	...	...	...	2	...	...	3	18	5	...	...	1	...	1	...
...	...	1	...	...	1	4	*	...	...	...	...	...	11	...	1	...	...	1	...	...
8	...	1	...	...	2	...	5	...	...	3	...	2	...	...	6	...	...	6	...	...
9	...	2	...	...	6	...	...	...	...	2	...	...	2	...	1	...	...	1	4	...
...	...	...	23	...	2	9	...	...	3	...	...	5	...	6	...	...	5	...	1	8
...	...	...	9	...	...	13	*	...	...	...	...	...	20	7	...	...	15	...	6	...
10	...	...	15	...	...	15	6	...	3	...	...	6	...	...	...	7	...	1	...	...
...	...	...	9	...	...	9	*	...	...	...	...	...	19	8	...	...	8	...	...	8
11	...	...	...	...	...	...	...	...	...	11	...	...	11	9	...	2	...	...	3	...
12	...	...	...	...	...	...	7	...	1	...	...	1	...	...	...	...	...	...	1	...
13	...	...	1	...	...	2	...	...	...	26	...	1	10	...	...	...	6	...	...	8
14	...	2	...	...	2	...	8*	..	...	...	...	...	2	...	...	...	3	...	1	...
...	...	...	8	...	...	8	...	...	1	15	...	5	...	10	...	4	5	...	4	...
...	...	2	...	...	2	...	...	...	...	54	...	...	56	11*	...	...	...	...	3	10
...	...	...	6	...	...	14	9	...	...	2	...	3	...	...	...	...	15	...	...	15
...	...	...	6	...	4	6	...	...	...	8	...	6	...	...	...	...	15	...	...	6
																	Hours.			
							10	...	4	...	...	4	...	...	...	...	2	...	...	20
*	...	...	...	...	...	...	...	1	...	...	1	...	...	...	1	...	...	...	1	...
*	...	...	...	...	...	...	...	...	3	...	...	5	23	...	...	5	...	...	...	...
*	...	...	...	...	...	...	...	...	...	5	...	...	24	...	...	...	7	...	...	17
15	...	2	...	...	5	2	11	...	1	...	1	...	...	...	...	...	32	...	...	67
16	...	3	...	...	4	...	12	...	5	...	...	6	...	12	...	1	...	...	4	...
...	2	...	...	3	...	...	...	...	...	10	...	...	10	14	1	...	...	1	...	...
...	...	...	3	...	...	...	...	...	4	...	3	...	...	15	...	...	6	...	2	...
...	...	...	7	...	...	20	13	...	6	...	1	4	...	...	...	...	15	2	...	...
17	*	...	...	...	...	...	...	...	...	6	...	3	...	16	...	...	15	...	3	15
...	...	1	...	...	1	15	...	...	1	15	...	2	...	...	...	...	15	...	...	15
...	...	3	...	...	3	...	14	...	...	1	...	...	13	17	...	...	8	...	1	...
																	Hours.			
18	...	...	10	...	2	...	*	...	...	...	...	5	...	...	...	...	12	...	1	...
...	...	3	...	7	...	...	...	...	6	...	4	...	...	...	...	...	7	...	...	10
...	...	...	4	...	2	26	...	...	3	...	...	3	...	...	...	...	18	...	2	18
19	...	...	4	...	...	12	*	...	...	...	...	1	3	18	...	...	10	...	4	...
20	...	...	5	...	1	2	...	...	...	1	...	1	5	19	...	4	...	...	4	...
...	...	...	15	...	...	15	15	...	6	...	1	3	...	...	...	...	2	...	1	...
...	...	...	18	...	...	21	16	...	...	8	...	2	8	...	...	...	10	...	1	...

* These refer to cases in which duration of Residence of the deceased is not known and to cases in which neither the duration of residence nor the duration of disease is known. The persons appear to have come from out-stations and died in Bombay. These deaths are shown against the date on which they have been registered.

APPENDICES.

	July.						August.							September.							
	Duration of residence in Bombay.			Duration of Disease.				Duration of residence in Bombay.			Duration of Disease.				Duration of residence in Bombay.			Duration of Disease.			
Date.	Year.	Mos.	Days.	Year.	Mos.	Days.	Date.	Year.	Mos.	Days.	Year.	Mos.	Days.	Date.	Year.	Mos.	Days.	Year.	Mos.	Days.	
21	...	1	...	...	6	...	...	...	2	...	...	2	...	20	...	...	20	...	...	20	
...	...	3	...	...	3	...	*	...	...	...	...	4	...	...	...	6	...	...	6	...	
...	...	...	8	...	...	7	17	...	...	4	...	1	...	21	...	1	...	...	1	...	
...	...	...	20	...	2	19	...	...	6	...	2	...	...	...	...	...	22	...	1	7	
23	...	1	...	...	3	...	...	...	...	15	...	...	15	...	...	...	8	...	...	8	
24	...	2	...	...	6	..	18	...	...	6	...	1	...	...	2	...	...	2	...	...	
...	...	2	15	...	2	15	19	1	4	...	1	4	...	22	...	...	...	...	...	...	
...	...	2	...	...	3	...	*	...	...	...	...	3	...	23	...	3	...	...	3	...	
...	...	4	...	...	4	10	...	...	...	7	...	1	12	...	...	1	...	...	5	15	
...	..	...	1	...	1	7	...	...	...	7	...	3	6	...	...	3	...	...	3	...	
...	...	2	...	...	3	...	...	1	...	...	1	...	...	24	...	...	6	...	...	6	
...	...	...	12	...	...	12	..	...	1	8	...	2	...	...	...	2	15	...	3	...	
...	...	...	14	...	...	24	20	...	1	...	...	1	...	25	1	...	...	1	...	...	
25	...	6	...	...	6	...	...	...	6	...	...	6	...	26	...	...	8	...	6	...	
...	...	3	...	...	6	...	21	...	6	...	1	6	...	...	...	...	21	...	...	24	
...	...	2	...	...	2	...	...	...	...	15	...	4	...	27	...	2	...	...	2	7	
...	...	3	...	...	3	15	22	..	1	15	...	1	15	28	...	2	15	...	2	15	
*	...	...	...	...	...	...	23	...	9	...	...	11	...	...	...	2	...	...	2	...	
*	...	...	...	...	...	...	24	...	...	...	...	..	8	29	...	4	...	...	4	...	
...	...	...	6	...	...	8	25	...	1	...	...	1	...	30	...	1	...	...	4	...	
26	...	...	3	...	...	15	26	...	1	...	...	1	...	...	...	...	1	...	...	25	
...	...	...	26	...	2	26	...	...	2	...	...	2	...	...	...	...	...	...	...	...	
27	...	...	...	...	...	...	...	...	17	...	4	6	...	...	...	...	...	...	...	...	
28	...	...	15	...	...	15	27	1	...	...	2	...	...	...	...	...	...	...	...	...	
...	...	1	27	...	3	27	...	...	7	...	...	7	...	...	...	...	...	...	...	...	
...	...	...	24	...	1	...	...	...	6	...	1	6	...	...	...	...	...	...	...	...	
29	...	1	...	...	1	...	28	...	1	...	...	4	...	...	...	...	...	...	...	...	
...	...	1	...	...	6	...	...	1	7	2	1	7	2	...	...	...	...	...	...	...	
...	1	...	...	2	...	...	...	2	...	...	2	...	...	...	...	...	...	...	...	...	
...	...	...	15	...	5	15	...	...	...	9	...	3	...	...	...	...	...	...	...	...	
30	...	...	...	...	...	...	*	...	...	...	...	1	...	...	...	...	...	...	...	...	
31	...	2	...	...	2	...	29	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	...	1	8	...	1	8	30	...	1	...	...	1	...	...	...	...	...	...	...	...	
...	...	...	2	...	4	...	31	...	1	...	...	1	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	12	...	1	...	...	...	...	...	...	...	...	

* These refer to cases in which duration of Residence of the deceased is not known and to cases in which neither the duration of residence nor the duration of disease is known. The persons appear to have come from out-stations and died in Bombay. These deaths are shown against the date on which they have been registered,

Appendix B.

STATEMENT showing details of the Storage and Consumption of Water in Vehar Lake for the year 1894-95.

Date.			Rainfall for the Week.		Rainfall up to date for the Year.		Reduced Level of the Surface of the Water in the Lake, as per Gauge readings.		Height of water (above the lowest inlet to the Tower) available for Supply.					
							At the commencement of the Week.	At the end of the Week.	At the commencement of the Week		At the end of the Week.		When the Lake is full.	
			Inches.	Cents.	Inches.	Cents.	Ft. T.H.D.	Ft. T.H.D.	Feet.	Cents.	Feet.	Cents.	Ft.	Ct.
1	2	3	4	5	6	7	8	9	10	1	12	13	14	15
1	April	1894	0	55	1	59	256·05	255·75	25	55	25	25	33	00
8	,,	,,	...	...	1	59	255·75	255·45	25	25	24	95	33	00
15	,,	,,	...	...	1	59	255·45	255·15	24	95	24	65	33	00
22	,,	,,	...	...	1	59	255·15	254·85	24	65	24	35	33	00
29	,,	,,	...	...	1	59	254·85	254·50	24	35	24	00	33	00
6	May	,,	...	...	1	59	254·50	254·35	24	00	23	85	33	00
13	,,	,,	...	...	1	59	254·35	254·00	23	85	23	50	33	00
20	,,	,,	...	...	1	59	254·00	253·70	23	50	23	20	33	00
27	,,	,,	...	...	...	...	253·70	253·35	23	20	23	35	33	00
3	June	,,	...	...	1	59	253·35	253·05	22	85	22	55	33	00
10	,,	,,	1	32	2	91	253·05	252·90	22	55	22	40	33	00
17	,,	,,	10	98	13	89	252·90	253·95	22	40	23	45	33	00
24	,,	,,	2	12	16	01	253·95	254·00	23	45	23	50	33	00
1	July	,,	0	86	16	87	254·00	253·80	23	50	23	30	33	00
8	,,	,,	3	31	20	18	253·80	253·90	23	30	24	40	33	00
15	,,	,,	14	47	34	65	253·90	253·85	23	40	26	35	33	00
22	,,	,,	17	61	52	26	256·85	262·00	26	35	31	50	33	00
29	,,	,,	1	67	53	93	262·00	262·80	31	50	32	30	33	00
5	August	,,	1	95	55	88	262·80	263·15	32	30	32	65	33	00
12	,,	,,	1	26	57	14	263·15	263·20	32	65	32	70	33	00
19	,,	,,	2	30	59	44	263·20	263·60	32	70	33	40	33	00
26	,,	,,	3	89	63	33	263·60	263·75	33	10	33	25	33	00
9	September	,,	2	95	66	90	263·60	263·75	33	10	33	25	33	00
16	,,	,,	8	87	75	77	263·75	263·95	33	25	33	45	33	00
23	,,	,,	2	01	77	78	263·95	263·75	33	45	33	25	33	00
30	,,	,,	1	47	79	25	263·75	263·90	33	25	33	40	33	00
7	October	,,	1	43	80	67	263·90	263·60	33	40	33	10	33	00
14	,,	,,	0	18	80	86	263·60	263·45	33	10	32	95	33	00
21	,,	,,	2	05	82	91	263·45	263·40	32	95	32	90	33	00
28	,,	,,	2	65	85	56	263·40	263·15	32	90	32	65	33	00
4	November	,,	...	...	85	56	263·40	263·15	32	90	32	65	33	00
11	,,	,,	...	...	85	56	263·15	262·00	32	65	32	30	33	00
18	,,	,,	...	...	85	56	262·80	262·50	32	30	32	00	33	00
25	,,	,,	...	...	85	56	262·50	262·20	32	00	32	70	33	00
2	December	,,	...	...	85	56	262·20	261·90	32	70	31	40	33	00
9	,,	,,	...	...	85	56	261·90	261·65	31	40	31	15	33	00
16	,,	,,	...	...	85	56	261·65	261·35	30	15	30	85	33	00
23	,,	,,	...	...	85	56	261·35	261·10	30	85	30	60	33	00
30	,,	,,	...	...	85	56	261·10	260·85	30	60	30	35	33	00
6	January	1895	...	...	...	...	260·85	260·60	30	35	30	10	33	00
13	,,	,,	...	...	...	...	260·60	260·30	30	10	29	80	33	00
20	,,	,,	...	...	...	...	260·30	260·05	29	80	29	85	33	00
27	,,	,,	...	...	...	...	260·05	259·75	29	55	29	25	33	00
3	February	,,	...	...	...	...	259·75	259·40	29	25	28	90	33	00
10	,,	,,	...	...	...	...	259·40	259·15	28	90	28	65	33	00
17	,,	,,	...	...	...	...	259·15	258·90	28	65	28	40	33	00
24	,,	,,	...	...	...	...	258·90	258·60	28	40	28	10	33	00
3	March	,,	...	...	...	...	258·90	258·30	28	10	27	80	33	00
10	,,	,,	...	...	...	...	258·30	258·00	27	80	27	50	33	00
17	,,	,,	...	...	...	...	258·00	257·70	27	50	27	20	33	00
24	,,	,,	...	...	...	...	257·70	257·35	27	20	26	85	33	00
31	,,	,,	...	...	...	...	257·35	257·05	26	85	26	55	33	00

S. TOMLINSON, M. Inst. C. E.,
Water Engineer.

BOMBAY MUNICIPALITY.

STATEMENT showing details of the Storage and Consumption of Water in Tulsi Lake for the year 1894-95.

Date.			Rainfall for the Week.		Rainfall up to date for the Year.		Reduced Level of the Surface of the Water in the Lake, as per Gauge readings.		Height of water (above the lowest inlet to the Tower) available for supply.					
							At the commencement of the Week.	At the end of the Week.	At the commencement of the Week.		At the end of the Week.		When the Lake is full.	
			Inches	Cents.	Inches	cents.	Ft. T.H.D.	Ft T.H.D.	Feet.	Cents.	Feet	Cents.	Ft.	Ct.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	April	1894												
8	"	"	1	20	2	82	442·90	442·35	43	54	42	99	57	14
15	"	"	...	...	2	82	442·35	441·80	42	99	42	44	57	14
22	"	"	...	...	2	82	441·80	441·30	42	44	41	94	57	14
29	"	"	...	...	2	82	441·30	440·65	41	94	41	29	57	14
6	May	"	...	...	2	82	440·65	440·00	41	29	40	64	57	14
13	"	"	...	...	2	82	440·00	439·00	40	64	39	64	57	14
20	"	"	...	...	2	82	439·00	438·20	39	64	38	84	57	14
27	"	"	...	...	2	82	438·20	437·50	38	84	38	14	57	14
3	June	"	...	...	...	...	437·50	436·80	38	14	37	44	57	14
10	"	"	...	...	...	...	436·80	436·15	37	44	36	79	57	14
17	"	"	1	93	4	77	436·15	435·25	36	79	35	89	57	14
24	"	"	12	60	18	74	435·25	436·85	35	89	37	49	57	14
1	July	"	1	37	20	11	436·85	436·55	37	49	37	19	57	14
8	"	"	1	00	21	11	436·55	436·10	37	19	36	74	57	14
15	"	"	3	35	24	46	436·10	435·95	36	74	36	59	57	14
22	"	"	16	28	40	74	435·95	443·00	36	59	44	64	57	14
29	"	"	29	60	70	24	443·00	456·90	44	64	57	54	57	14
5	August	"	3	14	73	38	456·90	456·90	57	54	57	04	57	14
12	"	"	3	04	76	42	456·40	456·40	57	04	57	04	57	14
19	"	"	2	40	78	82	456·40	456·05	57	04	56	69	57	14
26	"	"	3	95	82	77	456·05	456·35	56	69	56	99	57	14
2	September	"	3	88	86	65	456·35	456·20	56	99	56	84	57	14
9	"	"	0	74	87	89	456·20	455·75	56	84	56	39	57	14
16	"	"	3	83	91	22	455·75	456·10	56	39	56	74	57	14
23	"	"	7	56	98	78	456·10	456·55	56	74	57	19	57	14
30	"	"	2	10	100	94	456·55	456·40	57	19	57	04	57	14
7	October	"	3	91	104	85	456·40	456·75	57	04	57	39	57	14
14	"	"	1	14	105	99	456·75	456·45	57	39	57	09	57	14
21	"	"	0	15	106	14	456·45	456·10	57	09	56	74	57	14
28	"	"	2	65	108	79	456·10	455·95	56	74	56	59	57	14
4	November	"	2	25	111	04	455·95	455·85	56	59	56	49	57	14
11	"	"	0	11	104	15	405·85	455·55	56	49	56	19	57	14
18	"	"	...	...	104	15	455·55	455·05	56	19	55	69	57	14
25	"	"	...	...	104	15	455·05	455·05	55	69	55	19	57	14
2	December	"	...	...	104	15	454·05	454·05	55	19	55	69	57	14
9	"	"	...	...	104	15	454·05	453·55	55	69	54	19	57	14
16	"	"	...	...	104	15	453·55	453·10	54	19	53	74	57	14
23	"	"	...	...	104	15	453·10	452·60	53	74	53	24	57	14
30	"	"	...	...	104	15	452·60	452·15	53	24	52	79	57	14
6	January	1895	...	...	104	15	452·15	451·65	52	79	52	29	57	14
13	"	"	...	...	...	...	451·65	451·20	52	29	51	84	57	14
20	"	"	...	...	...	...	451·20	450·75	51	84	51	39	57	14
27	"	"	...	...	...	...	450·75	450·25	51	39	50	89	57	14
3	February	"	...	...	...	...	450·25	449·75	50	89	50	39	57	14
10	"	"	...	...	...	...	449·75	449·30	50	39	49	94	57	14
17	"	"	...	...	...	...	449·30	448·80	49	94	49	44	57	14
24	"	"	...	...	...	...	448·80	448·30	49	44	48	94	57	14
3	March	"	...	...	...	...	448·30	447·80	48	94	48	44	57	14
10	"	"	...	...	...	...	447·80	447·25	48	44	47	89	57	14
17	"	"	...	...	...	...	447·25	446·80	47	89	47	44	57	14
24	"	"	...	...	...	...	446·80	446·35	47	44	46	99	57	14
31	"	"	...	...	...	...	446·35	445·80	46	99	46	44	57	14
			...	...	...	...	445·80	445·30	46	44	45	94	57	14

S. TOMLINSON, M. Inst. C. E.,
Water Engineer.

APPENDICES.

STATEMENT showing details of the Storage and Consumption of Water in Pawai Lake for the year 1994-95.

Date.			Rainfall for the Week.		Rainfall up to date for the Year.		Reduced Level of the Surface of the Water in the Lake, as per Gauge readings.		Height of water (above the lowest Inlet to the Tower) available for supply.				When Lake is full.	
							At the commencement of the Week.	At the end of the Week.	At the commencement of the week.		At the end of the Week.			
			Inches	Cents.	Inches	Cents.	Ft. T.H.D.	Ft. T.H.D.	Feet.	Cents	Feet.	Cents	Ft.	Ct.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	April	1894	...	35	1	25	187·80	187·75	22	80	22	75	25	00
8	,,	,,	...	...	1	25	187·75	187·65	22	75	22	65	25	00
15	,,	,,	...	...	1	25	187·65	187·55	22	65	22	55	25	00
22	,,	,,	...	...	1	25	187·55	187·45	22	55	22	45	25	00
29	,,	,,	...	...	1	26	187·45	187·35	22	45	22	35	25	00
6	May	,,	...	...	1	25	187·35	187·20	22	35	22	20	25	00
13	,,	,,	...	...	1	25	187·20	187·00	22	20	22	00	25	00
20	,,	,,	...	...	1	25	187·00	186·85	22	...	21	85	25	00
27	,,	,,	...	...	...	...	186·85	186·65	21	85	21	65	25	00
3	June	,,	...	...	1	25	186·65	186·50	21	65	21	50	25	00
10	,,	,,	98	2	2	23	186·50	186·40	21	50	21	40	25	00
17	,,	,,	10	81	13	04	186·40	188·90	21	40	23	90	25	00
24	,,	,,	2	00	15	04	188·90	189·05	23	90	24	05	25	00
1	July	,,	00	52	15	56	189·05	189·05	24	05	24	05	25	00
8	,,	,,	2	52	18	08	189·05	189·15	24	05	24	15	25	00
15	,,	,,	14	19	32	27	189·15	190·05	24	15	25	05	25	00
22	,,	,,	17	82	50	09	190·05	190·15	25	05	25	15	25	00
29	,,	,,	1	77	51	86	190·15	190·00	25	15	25	00	25	00
5	August	,,	1	94	53	80	190·00	190·00	25	00	25	00	25	00
12	,,	,,	00	97	54	77	190·00	190·05	25	00	25	05	25	00
19	,,	,,	4	44	59	21	190·05	190·30	25	05	25	30	25	00
26	,,	,,	4	11	63	32	190·30	190·00	25	30	25	00	25	00
3	September	,,	00	71	64	03	190·00	190·00	25	00	25	00	25	00
9	,,	,,	5	18	69	21	190·00	190·05	25	00	25	05	25	00
16	,,	,,	9	36	78	47	190·05	190·05	25	05	25	05	25	00
23	,,	,,	2	20	80	67	190·05	190·00	25	05	25	00	25	00
30	,,	,,	2	52	84	19	190·00	190·05	25	00	25	05	25	00
7	October	,,	1	06	84	25	190·05	190·00	25	05	25	00	25	00
14	,,	,,	00	16	81	41	190·00	190·00	25	00	25	00	25	00
21	,,	,,	1	83	86	24	190·00	190·00	25	00	25	00	25	00
28	,,	,,	2	45	88	69	190·00	190·00	25	00	25	00	25	00
4	November	,,	00	00	88	69	190·00	190·00	25	00	25	00	25	00
11	,,	,,	00	00	88	69	190·00	189·90	25	00	24	90	25	00
18	,,	,,	00	00	88	69	189·90	189·80	24	90	24	80	25	00
25	,,	,,	00	00	88	69	189·80	189·70	24	80	24	70	25	00
2	December	,,	...	...	88	69	189·70	189·60	24	70	24	60	25	00
9	,,	,,	...	...	88	69	189·60	189·50	24	60	24	50	25	00
16	,,	,,	...	...	88	69	189·50	189·40	24	50	24	40	25	00
23	,,	,,	...	...	88	69	189·40	189·30	24	40	24	30	25	00
30	,,	,,	...	...	88	69	189·30	189·20	24	30	24	20	25	00
6	January	1895	...	...	...	...	189·20	189·10	24	20	24	10	25	00
13	,,	,,	...	...	...	...	189·10	189·00	24	10	24	00	25	00
20	,,	,,	...	...	...	...	189·00	188·90	24	00	23	90	25	00
27	,,	,,	...	...	...	...	188·90	188·80	23	90	23	80	25	00
3	February	,,	...	...	...	...	188·80	188·70	23	80	23	70	25	00
10	,,	,,	...	...	...	...	188·70	188·65	23	70	23	65	25	00
17	,,	,,	...	...	...	...	188·65	188·50	23	65	23	50	25	00
24	,,	,,	...	...	...	...	188·50	188·40	23	50	23	40	25	00
3	March	,,	...	...	...	...	188·40	188·30	23	40	23	30	25	00
10	,,	,,	...	...	...	...	188·30	188·20	23	30	23	20	25	00
17	,,	,,	...	...	...	...	188·20	188·10	23	20	23	10	25	00
24	,,	,,	...	...	...	...	188·10	188·00	23	10	23	00	25	00
31	,,	,,	...	...	...	...	188·00	187·90	23	00	22	90	25	00

S. TOMLINSON, M. Inst. C. E.,
Water Engineer.

BOMBAY MUNICIPALITY.

STATEMENT showing details of the Storage and Consumption of Water in Tansa Lake for the year 1894-95.

Date.			Rainfall for the Week.		Rainfall up to date for the Year.		Reduced Level of the Surface of the Water in the Lake as per Gauge readings.		Height of water (above the lowest inlet to the Tower) available for supply.					
							At the commencement of the Week.	At the end of the Week.	At the commencement of the Week		At the end of the Week.		When Lake is full.	
			Inches.	Cents.	Inches.	Cents.	Ft. T.H.D.	Ft. T.H.D.	Feet.	Cents.	Feet.	Cents.	Ft.	Ct.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	April	1894	....	47	1	18	398·26	397·93	18	26	17	93	25	00
8	,,	,,	....	....	1	18	397·93	397·62	17	93	17	62	25	00
15	,,	,,	....	....	1	18	397·62	397·27	17	62	17	27	25	00
22	,,	,,	....	....	1	18	397·27	396·91	17	27	16	91	25	00
29	,,	,,	....	....	1	18	396·91	396·55	16	91	16	55	25	00
6	May	,,	....	....	1	18	396·55	396·17	16	55	16	17	25	00
13	,,	,,	....	....	1	18	396·17	395·78	16	17	15	78	25	00
20	,,	,,	....	....	1	18	395·78	395·40	15	78	15	40	25	00
27	,,	,,	....	....	1	18	395·40	395·03	15	40	15	03	25	00
3	June	,,	....	....	1	18	395·03	394·66	15	03	14	66	25	00
10	,,	,,	1	54	2	72	394·66	394·50	14	66	14	50	25	00
17	,,	,,	10	07	13	25	394·50	396·90	14	50	16	90	25	00
24	,,	,,	1	68	14	94	396·90	397·67	16	90	17	67	25	00
1	July	,,	3	83	18	77	397·67	398·45	17	67	18	45	25	00
8	,,	,,	6	94	25	71	398·45	402·00	18	45	22	00	25	00
15	,,	,,	22	27	47	98	402·00	405·30	22	00	25	30	25	00
22	,,	,,	27	95	75	93	405·30	406·90	25	30	26	90	25	00
29	,,	,,	5	27	81	20	406·90	405·17	26	90	25	17	25	00
5	August	,,	3	48	84	68	405·17	405·02	25	17	25	02	25	00
12	,,	,,	2	36	87	04	405·02	405·03	25	02	25	08	25	00
19	,,	,,	3	12	90	16	405·08	405·17	25	08	25	17	25	00
26	,,	,,	3	79	93	95	405·17	405·02	26	17	25	02	25	00
3	September	,,	1	66	95	61	405·02	404·95	25	02	24	95	25	00
9	,,	,,	5	26	100	87	404·95	405·25	24	95	25	25	25	00
16	,,	,,	5	51	106	38	405·25	405·22	25	25	25	22	25	00
23	,,	,,	4	73	111	11	405·22	405·00	25	22	25	00	25	00
30	,,	,,	2	75	113	86	405·00	404·95	25	00	24	95	25	00
7	October	,,	1	08	114	94	404·95	404·94	24	95	24	94	25	00
14	,,	,,	00	18	115	12	404·94	404·86	24	94	24	86	25	00
21	,,	,,	1	00	116	12	404·86	404·92	24	86	24	92	25	00
28	,,	,,	....	98	117	10	404·92	404·95	24	92	24	95	25	00
4	November	,,	....	....	117	10	404·95	404·76	24	95	24	76	25	00
11	,,	,,	....	....	117	10	404·76	404·54	24	76	24	54	25	00
18	,,	,,	....	....	117	10	404·54	404·26	24	54	24	26	25	00
25	,,	,,	....	....	117	10	404·26	404·01	24	26	24	01	25	00
2	December	,,	....	....	117	10	404·01	403·73	24	01	23	73	25	00
9	,,	,,	....	....	117	10	403·73	403·48	23	73	23	48	25	00
16	,,	,,	....	....	117	10	403·48	403·21	23	48	23	21	25	00
23	,,	,,	....	....	117	10	403·21	402·95	23	21	22	95	25	00
30	,,	,,	....	....	117	10	402·95	402·67	22	95	22	67	25	00
6	January	1895	....	....	....	....	402·67	402·38	22	67	22	38	25	00
13	,,	,,	....	....	....	....	402·38	402·09	22	38	22	09	25	00
20	,,	,,	....	....	....	....	402·09	401·80	22	09	21	80	25	00
27	,,	,,	....	....	....	....	401·80	401·51	21	80	21	57	25	00
3	February	,,	....	....	....	....	401·57	401·26	21	51	21	26	25	00
10	,,	,,	....	....	....	....	401·26	400·95	21	26	20	95	25	00
17	,,	,,	....	....	....	....	400·95	400·66	20	95	20	66	25	00
24	,,	,,	....	70	....	70	400·66	400·38	20	66	20	38	25	00
3	March	,,	....	....	....	70	400·38	400·07	20	38	20	07	25	00
10	,,	,,	....	....	....	70	400·07	399·77	20	07	19	77	25	00
17	,,	,,	....	....	....	70	399·77	399·45	19	77	19	45	25	00
24	,,	,,	....	....	....	70	399·45	399·06	19	45	19	06	25	00
31	,,	,,	....	....	....	70	399·06	398·70	19	06	18	70	25	00

S. TOMLINSON, M. Inst. C. E.,
Water Engineer.

Appendix C.

Return of Fires as required under Section 364 of the City of Bombay Municipal Act, 1888.

Date.	Locality.	Nature of property destroyed.	Name of owner.	Estimated Damage.	Cause of Fire.	Time at which the water was turned on to, if used, from mains, and supplied at fire.	Remarks.
1894.							
19th March at 9-50 A.M.	Pinjrapol, 1st Lane.	A quantity of grass burned and a cart damaged by fire on public road.	Ganoo Amboo...	Rs. 10...	Light thrown down.	No water used.	Extinguished by inmates. Not insured.
22nd March at 8-28 A.M.	Gilder Street ...	Three rooms and contents on ground floor damaged by fire and water.	Panalal Pooranchand.	,, 200...	Careless use of fire.	At once from main.	Extinguished by Fire men with one hydrant. Insurance unknown.
22nd March at 2-15 P.M.	Bhuleshwar Road	About 2 × 2 feet of flooring damaged by fire in workshops on ground floor.	Jivanji Maharaj.	,, 1...	Spark from forge.	Water stored on premises.	Extinguished by inmates with one hydrant. Insurance unknown.
25th March at 12-15 P.M.	De Lisle Road (Union Mill.)	A quantity of loose cotton slightly damaged by fire and severely by water in mixing rooms on 2nd floor.	Vithaldas Gopaldas & Co.	,, 4,000...	Unknown ...	Do. ...	Extinguished by Mill sprinklers. Insured.

No.	Date.	Locality.	Nature of property destroyed.	Name of Owner.	Estimated Damage.	Cause of Fire.	Time at which the water was turned on to, if used from mains, and supplied at fire.	Remarks.
	1894.							
	26th March at 5-15 P.M.	Bhuleshwar Road	A quantity of hay burned in stable	Dossabhoy Cooverji.	Rs. 5...	Light thrown down.	Water stored on Premises.	Extinguished by inmates. Not insured.
	30th March at 1-15 A.M.	Clive Street, Mandvi.	A building of 3 floors about 40+40 feet (used as dwelling and store) upper floor and contents nearly burned out and roof off. rest of building and contents slightly damaged by fire heat and water.	Tharia Topan...	,,15,000...	Unknown	From main at once..	Extinguished by Firemen with 2 Steamers and 1 hydrant. Buildings insured. Contents not insured.
	2nd April at 11-1 A.M.	Moogbhat, Girgaum.	Roof of Chawl slightly damaged by fire.	Jivanji Maharaj.	,, 25...	Ditto. ...	From service pipe.	Extinguished by inmates. Not insured.

8th April at 3-1 A.M.	No. 275, Chakla Street. „ 273, do. „ 271, do.	A building of 2 floors, about 30 × 30 feet, upper floor and contents severely damaged by fire and roof off ground floor and contents by water, removal and breakage.	Jaffer Mahomed Haspuni.	Rs. 27,000.	Unknown ...	At once from tank and main.	Extinguished by Firemen with 2 Steamers and 1 hydrant. Building not insured. Contents partly insured.
15th April, at 4-45 A.M.	DeSouza Street, Mandvi.	Contents in shop on ground floor damaged by fire and water.	Buddia Ranchore.	„ 50...	Kerosine lamp upset.	From service pipe.	Extinguished by inmates and firemen with buckets. Insurance unknown.
23rd April, at 8-1 P.M.	Parsi Bazar Street.	A small quantity of stock damaged by fire and water on ground floor.	J. B. Karani & Co.	„ 5...	Light thrown down.	From service pipe.	Extinguished by inmates. Building insured; contents not insured.
24th April, at 11-30 P.M.	Thakurdwar Road.	A quantity of cowdung cakes burned on ground floor.	Sawalla Dhondoo.	Nil ...	Careless use of fire	Do. ...	Do. not insured.
27th April at 2-1 A.M.	DeSouza Street.	Some wearing apparel slightly damaged by fire on 4th floor.	Pragji Harji ...	Rs. 1...	Careless smoking.	Water stored on premises.	Do. by inmates: not insured.

No.	Date.	Locality.	Nature of property destroyed.	Name of Owner.	Estimated Damage.	Cause of Fire.	Time at which the water was turned on to, if used from mains, and supplied at fire.	Remarks.
	1894.							
	1st May, at 6-40 P.M.	Mori Road, Mahim.	A joili hut destroyed.	Antone Joseph..	Rs. 8...	Careless use of fire.	Domestic supply of water used.	Extinguished by inmates; not insured.
	28th April, at 11-30 A.M.	Tardeo, (Jivraj Baloo Spinning and Weaving Mill)	A quantity of cotton damaged by fire and water in blow-room one 1st floor.	Jivraj Baloo	,, 250...	Friction of machinery.	Water stored on premises.	Do. by mill sprinklers; insured.
	5th May, at 3-1 A.M.	Qway Street, Mazagon..	A stack of bamboos severely damaged by fire on open ground.	Karim Mahomed.	,, 300...	Incendiarism..	Water used from well.	Do. by Firemen with 1 steamer and 1 manual; not insured.
	4th May at 7-1 A.M.	Stone Bandar...	A small quantity of wearing apparel and some bedding damaged by fire on 2nd floor.	Asabai	,, 20...	Children playing with lucifers.	Domestic supply of water used.	Extinguished by inmates; contents and building not insured.
	6th ay at 4- A.M.	Falkland Road.	A wooden beam damaged by fire on 2nd floor.	Arudin Urudin	,, 1...	Careless smoking.	Do.	Do.
	14th May; at 1-5 P.M.	Curry Road	A small quantity of timber damaged by fire on open ground.	Palanji Ratanji.	,, 5...	Spark from chimney adjoining.	Water stored on premises; not used from main.	Extinguished by inmates; not insured.

15th May, at 7-35 B.M.	Albion Place, Byculla.	Rafters of cook-room on 2nd floor slightly damaged by fire.	Mr. Jamsetji Tata.	,,	5...	Careless use of fire.	Do.	Do. by inmates and firemen with buckets; insurance unknown.
18th May, at 9-30 P.M.	Banyan Road, Pydhoni.	A small quantity of hay destroyed on ground-floor, used as a stable.	Chukeram Jairam.	,,	1...	Careless smoking.	Do.	Do. by inmates; not insured.
20th May, at 6-15 P.M.	Haines Road, Byculla.	Door of room on 3rd floor severely damaged by fire.	Goomaji Balaji.	,,	3...	Careless use of fire.	Domestic supply of water used; not used from main.	Do. do.
16th May, at 2-55 P.M.	134 Bhendy Bazar Street.	Weather framing slightly damaged by fire on ground-floor.	Lalji Sett ...	,,	1...	Light thrown down.	Water used from main service at 2-56 P.M.	Extinguished by inmates; not insured.
17th May, at 5-30 A.M.	Carpenter Street, Null Bazar.	A quantity of hay burned in stable, flooring and joisting over damaged by fire and breakage.	Junar Daji Bhagoba.	,,	100...	Ditto. ...	Ditto from main at 5-45 A.M.	Ditto by firemen with 1 hydrant. Ditto. ditto.
22nd May, at 3-15 P.M.	Falkland Road.	A quantity of hay severely damaged by fire on open ground.	Gunoo Babaji...	,,	50...	Careless use of fire.	Ditto ditto at 3-26 P.M.	Ditto, ditto with buckets; ditto, ditto.

Date.	Locality.	Nature of property destroyed.	Name of Owner.	Estimated Damage.	Cause of Fire.	Time at which the water was turned on, if used from mains and supplied at fire.	Remarks.
1894.							
28th May, at 11-1 P.M.	Doctor Street (Null Bazar)	A building of two floors, about 50×50 feet; upper floor and contents nearly burned out and roof off ground-floor and contents damaged by fire, water and removals	Beg Mahomed Hadji Abdul Raliman.	Rs. 23,120.	Unknown ...	Water used from main at 11-10 P.M.	Extinguished by firemen with 4 steamers and 1 hydrant; building insured; contents not insured.
1st June, at 9-29 A.M.	Chinchpokly Road.	A garret over ground, floor and contents severely damaged by fire and part of roof off.	Hadji Kasum...	,, 800...	Careless use of fire.	Ditto at 9-13 A.M.	Ditto by ditto with 1 hydrant; building and contents not insured.
2nd June, at 8-1 A.M.	Mahim ...	A quantity of rubbish burned on open ground.	The Bombay Municipality.	Nil ...	Light thrown down.	Water used from main at 8-30 A.M.	Extinguished by firemen with 2 hydrants; not insured.
13th June, at 4-40 P.M.	Foras Road, (Madewji Dharamsi Manufacturing Co.)	A small quantity of cotton damaged by fire in blow room on ground floor.	Madhaoji Dharamsi & Co.	Re. 1...	Friction.	Water stored on on premises.	Do. by Mill employes with buckets; insured.

13th June, at 5-35 P.M.	Charni Road (Bombay United Spinning & Weaving Mill)	Contents in blow room on ground damaged by fire and water.	Khatau Makanji & Co.	„	800...	Stone in machinery.	Water stored on premises.	Do. by Mill sprinklers and employés with hydrant; insured.
15th June, at 6-55 A.M.	Do. do. ...	A quantity of cotton damaged by fire and water in mixing room on 1st-floor.	Do. ...	„	15,000.	Unknown. ...	Do. ...	Do. by do. do. with hydrants and firemen with hand pump and buckets; insured.
23rd June, at 10-1 P. M.	Frere Road ...	Three ranges of jowli sheds and contents nearly burnt out and one bullock burnt to death.	Anaji Ganoo and 52 others.	„	660...	Kerosine lamp exploding.	Water used from main at 10-17 P.M.	Extinguished by firemen with one steamer and 2 hydrants; not insured.
26th June at 8-40 A. M.	Sarang Street (Carnac Bridge Road.	A small quantity of dammer burnt on 3rd floor	Ismael Bhai. ...	„	1...	Dammer upset on fire.	Water stored on premises.	Do. by inmates; not insured.
2nd July, at 3-30 P.M.	Kalighat Street, Frere Road.	Some grass matting damaged by fire on 3rd floor.	Rosalina ...	„	1...	Light thrown down.	No water used...	Extinguished by inmates with ashes; not insured.
12th July, at 4-1 A.M.	Huzria Street ...	A Tabcot and awning over same, severely damaged by fire on public road.	Bala Meer, Bapoo Meer.	Rs.	75...	Careless use of kerosine lamp.	Water stored on premises.	Extinguished by inmates; insured.

Date.	Locality.	Nature of property destroyed.	Name of Owner.	Estimated Damage.	Cause of Fire.	Time at which the water was turned on, if used from mains and supplied at fire	Remarks.
1894.							
30th July, at 11-1 P.M.	Ramwadi, Kalbadevi Road.	A quantity of charcoal damaged by fire on ground floor.	Alikhan Mahomed.	Rs. 10...	Careless smoking.	Water used from main at 11-8 p. m.	Extinguished by firemen with one hydrant; building insured, contents not insured.
1st August at 5-1 A.M.	Telli Moholla (Old Nagpada.)	A quantity of wearing apparel severely damaged by fire on ground floor.	Essa Madhabux.	„ 100...	Careless use of kerosine lamp.	Do. do. Main service pipe at 5-2 a. m.	Do. by inmates; building insured; contents not insured.
6th August at 8-1 P.M.	Moogbhat	Some wearing apparel damaged by fire on 1st floor.	Jairam Nursu...	„ 8...	Overheating of kerosine lamp.	Water used from main service pipe at 8-2 p. m.	Extinguished by inmates with buckets, not insured.
10th August at 2-1 A.M.	Hospital Lane, Wari Bunder.	A jowli hut and contents nearly burned out.	Vithoo Ranoo and others.	„ 105...	Careless use of kerosine lamp.	Do. from main at 2-15 a. m.	Do. by firemen with one hydrant, do.
10th August at 1-25 P.M.	Ali Oomer Street.	About 4×3 feet of flooring and joisting damaged by fire on ground-floor.	Ali Meer Mahamad.	„ 1,700...	Careless use of fire.	Water stored on premises.	Do. by inmates, do.

12th August at 2-30 P.M.	Home Street, Fort.	A small quantity of hay and several wooden barrels damaged by fire on ground floor.	Sorabji Kawasji.	„ 5...	Light thrown down.	Ditto. ...	Extinguished by inmates; contents not insured; insurance of building unknown.
26th August at 5-45 A.M.	Kazi Street. ...	ome gunny bags slightly damaged by fire on second floor.	Kesoji Purshotam.	„ 2...	Unknown ...	Ditto. ...	Do. building insured; contents not insured.
26th August at 11-26 A.M.	Kamathipura, 3rd Lane.	Bed and bedding slightly damaged by fire on 1st floor.	Amberbai. ...	Re. 1...	Careless use of oil-lamp.	Ditto. ...	Do. not insured.
28th August at 5-1 A.M.	Dharavi Road, Mahim.	A jowli hut and contents nearly burned out, a boy named Marooti, aged about 4 years burned to death and a girl named Chandri, aged about 6 years burned on arms, and taken to a hospital.	Bala Babaji ...	Rs. 100...	Do.	Water used from a pond.	Extinguished by inmates, not insured.
4th Sept., at 3-45 P.M.	Warli Pakhadi.	8 jowli huts and contents destroyed.	Varjivandas Madhavdas.	„ 1,700	Do.	Water used from main at 4-15p. m. and well.	Do. by firemen with 1 manual and 2 hydrants; not insured.

Date.	Locality.	Nature of property destroyed.	Name of Owner.	Estimated Damage.	Cause of Fire.	Time at which the water was turned on, to if used from mains and supplied at fire.	Remarks.
1894. 5th Sept. at 2-35 A.M.	Ghoghari Mohla.	Store-room on ground floor and contents severely damaged by fire.	Daji Kanaji ...	Rs. 100...	Light thrown down.	Do. do. at 2-45 a.m.	Extinguished by firemen with hydrant, building insured; contents not insured.
9th Sept., at 5-39 A.M.	4th Koli Lane, Lower Colaba	Some wearing apparel damaged by fire on ground floor.	Ganoo Harry ...	,, 5...	Careless use of oil-lamp.	Water stored on premises.	Extinguished by inmates; not insured.
21st Sept., at 12-27 A.M.	Kazi Street ...	Do. do. on first floor.	Umerkhan ...	,, 10...	Unknown ...	Water used from service pipe at 12-32 a.m.	Do. by firemen with hand pump, insurance unknown.
21st Oct., at 6-45 P.M.	Kamathipura, 2nd Lane.	A quantity of wearing apparel severely damaged by fire on 1st floor. Malary Vithoo, aged 12 years, severely burned on arms and body and removed to Hospital.	Dugroo Yessoo.	,, 60...	Letting off fireworks.	Water used from service pipe at 6-50 p.m.	Extinguished by inmates; not insured.

20th Oct., at 9-1 A.M.	Kalvin Road, Warli.	Contents of a jowli hut damaged by fire.	Jumma Soma ...	,,	3...	Careless use of oil-lamp	Water stored on premises.	Do.
31st Oct. at 9-30 P.M.	Mugbhat ...	About 2 × 2 feet of flooring damaged by fire on 2nd floor.	Jairam Kanaji.	,,	2...	Careless use of fire.	Water used from service pipe at 9-34 p.m.	Do. do. building insured, contents not insured.
5th Nov., at 1-35 P.M.	196, Ghoghari Mohla.	Some wearing apparel damaged by fire on 3rd floor.	Ismail Abdul ...	,,	2...	Careless use of fire.	Water stored on premises.	Do. do. inmates. Insurance unknown.
9th Nov., at 11-5 A.M.	Janjkar Street.	A range of 8 shops and contents severely damaged by fire, heat and water.	Sultanali Rahimbhai.	Rs. 53,300.				Building belonging to Bai Sonabai Ready-money, insured; contents not insured.
			Darsee Waydu...					Contents not insured.
			Mahomedali Kaderbhai.			Unknown ...	Water used from main at 11-20 a.m.	Do. do.
			Tyabali Mahomedali.					Do. do.
			Ebrahim Lukmanji.					Do. do.
			Subabhai Sheikbhai.					Do. do.
			Ebrahim Karim..					Contents insured...
			Hemchand Narayendas.					Contents not insured.

Date.	Locality.	Nature of property destroyed.	Name of Owner.	Estimated Damage.	Cause of Fire.	Time at which the water was turned on, if used from mains and supplied at fire.	Remarks.
1894.							
12th Nov., at 8-28 P.M.	Chinchpokli Road.	A quantity of waste paper burned on ground floor.	Pasoo Dewla ...	Nil ...	Careless use of oil-lamp	Water stored on premises.	Buildinginsured; contents not insured.
18th Nov., at 1-29 P.M.	Kolsa Street, Paidhowni.	Some old clothes damaged by fire on 2nd floor.	Jumabhoy ...	Re. 1...	Careless use of fire.	Water stored on premises.	Extinguished by inmates; not insured.
19th Nov., at 10-44 A.M.	Cooper Street, Bhendy Bazar.	A quantity of old canvas burned on ground-floor	Kamarali ...	Rs. 5...	Careless smoking.	Do. ...	Do.
24th Nov., at 11-20 A.M.	British Hotel Lane, Apollo treet.	A quantity of hay burned and wood partition slightly damaged.	Jehangir Hormasji Mody.	,, 10...	Light thrown down.	Do. ...	Do. building insured, and insurance of contents unknown.
5th Dec., at 3-35 P.M.	Bhendy Bazar, Parel Road.	A tiled shed used as a stable and store and contents damaged by fire and a part of the roof off.	Abba Abdul Husen.	,, 350...	Careless smoking	Water used from main at 3-50 a.m.	Extinguished by Firemen with shydrant, not insured.
8th Dec., at 8-50 A.M.	Pallayal Road, Worlee.	A jowli hut and contents nearly burned out.	Joseph Roderigues.	Rs. 200...	Careless use of fire.	Water stored on premises.	Extinguished by inmates; not insured.

11th Dec., at 1-30 A.M.	Jenjikar Street (Cross Lane) No. 4.	A building of two floors about 30×35 feet and contents nearly burned out and roof off.	Budia Sunvar....	10,185	Upsetting of Kerosine lamp.	Water used from main at 1-45 a. m.	Extinguished by firemen with 4 steamers; not insured.
	Do. do. do. No. 1.	Upper floor and contents damaged by fire and water and part of roof off.	Khrustnabai ...				
	Do. do. do. No. 2.	Upper floor and contents damaged by fire and water and part of roof off.	Budia Sunvar ...				
	No. 23 Koliwada (Cross Lane)	Ground floor and contents damaged by fire and water.	Do. do. ...				
	No. 21 do. do.	A quantity of wearing apparel damaged by fire one 1st floor.	Do. do. ...				
	No. 19 do. do.	Rear of building damaged by fire and heat and part of roof off.	Do. do. ...				

Date.	Locality.	Nature of property destroyed.	Name of Owner.	Estimated Damage.	Cause of Fire.	Time at which the water was turned on it, if used from mains and supplied at fire.	Remarks.
1894.							
17th Dec. at 12-12 A.M.	Bhendy Bazar...	About 4 × 4 feet of of wooden partition damaged by fire on 2nd floor.	Alibhoy Peerbhoy.	Rs. 5...	Careless use of fire.	.....	Extinguished by inmates; not insured.
22nd Dec., at 11-43 A. M.	Parel Road (ew Great E. Mill).	A quantity of loose cotton damaged by fire and water in blow-room on ground-floor.	Vanmalidas J. Shamji & Co.	,, 300...	Stone in cotton opener	Water stored on the premises.	Extinguished by Mill sprinklers and employes; insured.
24th Dec., at 10-55 A. M.	Parel Road ...	Some waring apparel burned and roof slightly damaged by fire on 2nd floor.	Lambji Depaji.	,, 10...	Careless use of fire.	Water used from service pipe at 11 a.m.	Extinguished by firemen with hand pump; not insured.
27th Dec., at. 12-27 A.M.	Mori Road	A jowli hut and contents destroyed.	Sakharam Rowji.	,, 10...	Do. ...	Water stored on premises.	Extinguished by inmates; not insured.
30th Dec at 3- A.M.	Clive 2nd Cross-Lane.	A building of 1 floor about 30 × 12 feet (used as rag store) and contents severely damaged by fire.	Triboowandas Waranchi.	,, 1,600...	Careless smoking.	Water used from main at 3-20 a.m.	Extinguished by firemen with 3 hydrants; building insured, contents not insured.

Do. ...	Do. ...	Side windows and roof damaged by fire and heat.	Do. ...	„ 1,600...	Do. ...	Do. ...	Do.
Do. ...	Do. ...	Contents slightly damaged by water.	Do. ...	„ 1,600...	Do. ...	Do. ...	Extinguished by firemen with 3 hydrants; building and contents insured.
30th Dec., at 7-1 A.M.	Lady Jamsetji Road.	A jowly hut and contents damaged by fire.	Luckma ...	„ 15...	Careless use of fire.	Water stored on premises.	Extinguished by inmates; not insured.
30th Dec., at 6-30 P.M.	Narayan Dhuru street.	A kerosine lamp destroyed and flooring slightly damaged by fire on 2nd floor.	Ahmed Pir Mahomed.	„ 12...	Kerosine lamp upset.	No water used...	Do.
1895.							
1st Jan., at 12-59 A.M.	Wari Bunder Road.	A jowli hut slightly damaged by fire.	Arjoon Malloo...	„ 2...	Careless use of oil lamp.	Water stored on premises.	Do.
1st Jan., at 3-30 P.M.	Khetwadi ...	Roof of jowli hut slightly damaged by fire.	Mookanbai ...	„ 2...	Light thrown down.	Do.	Extinguished by inmates; not insured.
3rd Jan., at 1-28 P.M.	DeLima Street, Mazagon. ...	A quantity of dry grass and some wearing apparel destroyed by fire on open ground.	Unknown ...	„ 10...	Carelesssmoking.	Do, on the adjacent premises.	Extinguished by firemen with buckets; not insured.

No.	Date.	Locality.	Nature of property destroyed.	Name of Owner.	Estimated Damage.	Cause of fire.	Time of which the water was turned on it, if used from mains and supplied at fire.	Remarks.
	1895.							
16	3rd Jan., at 4-30 P.M.	Girgaum Back Road,	A jowli hut and contents damaged by fire.	Vinayek Sadanund.	Rs. 5...	Children playing with matches.	Water used from well.	Extinguished by inmates; not insured.
	11th Jan. at 2-5 P.M.	Pedder Road ...	A jowli hut and contents nearly burned out.	Luxmon Rama.	„ 200...	Children playing with fire.	Water used from main at 2-23 p.m.	Extinguished by Firemen with Buckets; not insured.
	14th Jan. at 1-56 A.M.	Musjid Bunder.	Some wearing apparel damaged by fire on 2nd floor.	Dinshawji Dosabhoy.	„ 5...	Careless use of oil lamp.	Water stored on premises.	Extinguished by inmates; not insured.
	5th Jan. at 3-15 P.M.	Gamdevi Road.	Some wearing apparel burned and a door slightly damaged by fire on 1st floor.	Gungadhur Bhiwaji.	„ 15...	Careless use of matches.	Do. ...	Do
	7th Jan. at 6-25 P.M.	No. 210, Bellasis Road.	A cupboard, wooden partition and rafters damaged by fire on 1st floor.	Mrs. Atkins. ...	„ 10...	Incendiarism	Water used from main at 6-40 p.m.	Extinguished by fireman with one hydrant, building insured.
	17th Jan. at 7-30 P.M.	Khetwadi 3rd Lane.	Some old clothes damaged by fire on ground floor.	Ismail Assur ...	Re. 1...	Kerosine lamp upset.	Domestic supply.	Extinguished by inmates; not insured.

18th Jan. at 7-49 P.M.	Clare Road ...	Contents on 1st floor slightly damaged by fire and water.	Mahomedbhoy Mowji.	,,	150...	Do. ...	Do. ...	Do.
19th Jan. at 2-55 P.M.	No. 504 Duncan Road.	About 2′ × 2′ of flooring damaged by fire on 1st floor.	Hassun Alladin Jeewaji.	,,	2...	Careless use of fire.	Water stored on premises.	Do.
20th Jan. at 10-44 A.M.	Dharavi Road...	A jowli hut and contents burned out.	Nursing Khumbhar.	,,	20...	Do. ...	Do. ...	Extinguished by workmen; not insured.
22nd Jan. at 12-17 A.M.	303 Frere Road.	A wooden hut and contents damaged by fire and water.	Vishram Huzraji	,,	390...	Kerosine lamp exploding.	Water used from main at 12-30 A.M.	Extinguished by Firemen with one hydrant; not insured.
25th Jan. at 3-37 P.M.	Poona Street ...	A corrugated iron shed and a jowli hut and contents nearly burned out.	The Port Trust..	,,	90...	Careless smoking.	Water used from main at 3-47 P.M.	Extinguished by Firemen with two hydrants; not insured.
28th Jan. at 11-1 A.M.	Koliwada Worlee	Roof of jowli hut slightly damaged by fire.	Masal Khan ...	,,	1...	Oil lamp ...	Water stored on premises.	Extinguished by inmates; not insured.

Date.	Locality.	Nature of property destroyed.	Name of Owner.	Estimated Damage.	Cause of Fire.	Time at which the water was turned on to and supplied at fire.	Remarks.
1895.							
31st Jan., at 4-30 P.M.	Narayan Dabulkar Road, Malabar Hill.	Store room on upper floor and contents damaged by fire and water.	Panalal Poonamchand.	Rs. 50	Careless use of kerosine lamp.	Water stored on premises.	Extinguished by inmates and firemen with buckets and handpump.; insurance not known.
2nd Feb., at 2-15 A.M.	Koliwada, Worlee.	Roof of dwelling house slightly damaged by fire.	Jaitya Akar ...	,, 2	Careless use of oil lamp.	Water stored on premises.	Extinguished by inmates; not insured.
7th Feb., at 7-60 P.M.	Girgam Road ...	A small quantity of coir burned on ground floor.	Jewanlal Maharaj.	,, 1	Careless smoking.	Water stored on premises.	Do.
9th Feb., at 1-36 A.M.	No. 11, Memon Street, Old Imambara.	A tiled shed and contents damaged by fire.	Framji Dorabji..	,, 25	Careless smoking.	Water used from Main at 1-47 a.m.	Extinguished by firemen with one hydrant; not insured.
10th Feb., at 8-8 A.M.	Khetwady 9th Lane.	Some gunny bags damaged by fire on ground floor.	Mr. A. Tyabji...	,, 2	Careless use of fire.	Water used from service pipe.	Extinguished by inmates; not insured.
15th Feb., at 5-17 P.M.	French Bridge (The Mahomedan Mill.)	A small quantity of coal damaged by fire on open ground.	Heptoola Sheik Adam & Co.	,, 2	Unknown ...	Water used from Mill Tank.	Extinguished by mill employes with private hydrants. Insured.

20th Feb., at 8-35 P.M.	Parel, G. I. P. Ry. Workshops.	A corrugated iron roofed shed and contents nearly burned out, a number of Railway carriages and trucks severely damaged by fire, sheds adjoining damaged by fire, heat and breakage.	G. I. P. Railway Company.	Rs. 86,000	Unknown ...	Water used from Main at 8-55 p.m.	Extinguished by firemen with 2 steamers and Railway employes with private appliances. Not insured.
22nd Feb., at 3-1 A.M.	Clerk Road ...	A quantity of loose hay burned on open ground.	Lessee of land belonging to Bombay Municipality.	,, 20	Careless smoking.	Water used from main at 3-2 a.m.	Extinguished by employes and firemen with private hydrants. Not insured.
22nd Feb., at 5-30 P.M.	Do. ...	Roof of a jowli hut damaged by fire.	Rustomji Nanabhoy.	,, 2	Do. ...	Water stored on premises.	Extinguished by inmates. Not insured.
24th Feb., at 2-55 A.M.	Falkland Road...	A small quantity of stock damaged by fire on ground floor.	Nayal Malvie ...	,, 2	Careless use of fire.	Do. ...	Do.
24th Feb., at 11-55 P.M.	Camatipura Centre Road.	About 3×2 feet of flooring damaged by fire on 1st floor.	Gulbai Rustomji	,, 3	Do. ...	Do. ...	Do. Building insured. Contents not insured.

No.	Date.	Locality.	Nature of property destroyed.	Name of owner.	Estimated Damage.	Cause of Fire.	Time at which the water was turned on to and supplied at fire.	Remarks.
	1895.							
	6th Feb., at 2-20 P.M.	Parel Road, the New G. E. Mill.	A small quantity of loose cotton damaged by fire and water in blow room on ground floor.	Vanmalidas Shamji & Co.	Rs. 10	Stone in machinery.	Water stored on premises.	Extinguished by Mill sprinklers. Insured.
	27th Feb., at 10-25 P.M.	Neapean Sea Road.	A stack of hay and a quantity of timber severely damaged by fire on open ground.	Sir Dinshaw Maneckji Petit.	,, 1,000	Incendiarism.	Water used from main at 10-42 p.m.	Extinguished by firemen with 2 steamers and 2 hydrants. Not insured.
	28th Feb., at 7-35 P.M.	Gowalia Tank Road.	A quantity of hay burned in stable.	Hormusji Jewanji.	,, 20	Careless smoking.	Domestic supply	Extinguished by inmates. Not insured.
	5th March at 7-15 A.M.	DeLisle Road (Union Mill.)	A quantity of loose cotton damaged by fire and water in Blow-room on ground floor.	Vithaldass Gopaldas & Co.	,, 1,000	Friction	Water Stored on premises.	Extinguished by mill sprinklers; insured.

5th March at 10-1 p.m.	Bellasis Road ...	A bed and bedding damaged by fire in compound.	Byculla Club ...	Rs. 1	Careless use of matches.	Do. ...	Extinguished by inmates. Not insured.
5th March at 9-15 a.m.	Sarung Street ...	A quantity of dammer burned on ground floor.	Unknown.....	„ 3	Dammer upset on fire.	Do. ...	Do.
10th March at 5-15 a.m.	No. 516, Kolsa Cross-Lane.	Flooring and wooden partition of a room on 2nd floor damaged by fire.	Hadji Joomas Hadji Essack.	„ 20	Careless use of fire.	Do. ...	Extinguished by firemen with hand pump and buckets. Not insured.

Appendix D.

PROGRESS REPORTS

1894

OF NEW WORKS.

PROGRESS REPORTS UP TO THE END OF MARCH 1894

Under the Executive

Name and Description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
	Rs.			
1.—WATER WORKS.				
WORKS COMPLETED.				
1. Repairs to Bhandarwada Reservoir additional work.	7,290	Cur. rev.	5th May 1893	5th May 1893 .....
2. Alteration of 22 dipping wells, &c.....	4,163	Balance out of Budget for 1891-92 and previous one.	.....	.....
3. Filling up to pipe embankment level a strip of land taken up for the pipe line at Kurla to store pipes.	2,610	Loan	23rd Feb. 1893.....	23rd Feb. 1893.....
4. Allowance for fixing gratings at siphon heads and tails.	250	Do.	Do. ...	Do. ...
5. Additional work Ghatkopar bridge ...	1,600	Do.	Do. ...	Do. ...
6. Work at basis of cabins, say 16 @ Rs. 110	1,760	Do. ...	Do. ...	Do. ...
WORKS IN PROGRESS.				
7. Repairs to Tulsi main embankments.	22,000+ 13,000	Cur. rev	14th Jan. 1892 ..... 27th Jan. 1892....	14th Jan. 1892 1st Mar. 1892
8. Connections at Chinchpokli between Tansa and Vehar mains.	7,164	Loan	16th June 1892	16th June 1892 .....
9. Earth filling and loose stone pitching in No. 4 Division.	305	Do.	23rd Feb. 1893	23rd Feb. 1893 .....
10. Provision of fire buckets and hose for Municipal Markets.	6,203	Cur. rev	23rd Jan. 1890..... 6th Feb. 1893.....	23rd Jan. 1890 6th Feb. 1893
11. Dry rubble pitching on siphon No. 5...	4,600	Loan	23rd Feb. 1893	23rd Feb. 1893 ...
12. Covering storage basin at the Bhundarwada Reservoir and constructing filter over it.	44,500 1,15,500	Do.	14th Jan. 1892..... 6th Feb. 1893.....	14th Jan. 1892 1st Mar. 1893
	1,60,000			
13. Further alteration and improvements at the Malabar Hill Reservoir.	75,000	Loan	6th Feb. 1893. ...	Do. ...
14. Extension of water mains in various places.	30,000	Do.	Do. ...	Do. ...
15. Ghatkopar strainers	12,000	Do. ...	23rd Feb. 1893.....	23rd Feb. 1893.....
16. Memorial structure at Tansa	2,628	Do. ...	Do. ...	Do. ...
WORKS TO BE COMMENCED.				
17. Renewals of existing mains	1,00,000 1,00,000	Cur. rev..... Do. ...	27th Jan. 1892 ..... 30th Jan. 1893	27th Jan. 1892 ... 1st Mar. 1893 ...
18. Masonry required at Ghatkopar clearing sluice	2,500	Loan ...	23rd Feb. 1893 ...	23rd Feb. 1893 ...
19. Renewing boundary marks	2,000	Do. ...	Do. ...	Do. ...
20. Flooring Bassein bridge and culverts..	13,000	Do. ...	Do. ...	Do. ..
21. Widening embankment at Bassein Creek	10,000	Do. ...	Do. ...	Do. ...

APPENDICES TO RECORD.

OF NEW WORKS NOW IN COURSE OF CONSTRUCTION

Engineer, Municipality.

Date of commencement of the Work.	Probable Date of completion of the Work.	Certified Expenditure up to the end of 31st March 1894.	Remarks.
		Rs. a. p.	
July 1893.....	23rd July 1893	6,222 5 11	Accounts to be adjusted.
May 1892.....	30th June 1894	3,296 15 6	Works completed. Final Account is being adjusted.
30th Sep. 1893	28th Feb. 1894	2,131 7 8	Contract let to Messrs. Framji, Mahomedally & Co. Work completed and the final account adjusted.
June 1893.....	31st May 1894	158 8 2	Work carried out departmentally and completed, the final account is being adjusted.
Apr. 1893.....	31st March 1894 ...	1,353 5 6	Almost completed by Messrs. Sorabji Framji & Co.
Do. ...	31st May 1894	747 4 10	Work carried out departmentally and completed, the final account is being adjusted.
11th Mar. 1892	31st Mar. 1895	22,910 7 4	Work in progress by contract with Mr. Ardeshir Framji.
July 1892.. ..	31st May 1894	7,402 1 4	Work in progress departmentally. Cannot be completed until the dispute with the G. I. P. Ry. is settled.
May 1893.....	31st May 1894	224 0 2	Work in progress departmentally.
May 1892.....	Do.	2,834 9 8	Hose received, buckets provided and fixed and pipe laying commenced.
July 1893.....	30th June 1894.....	2,447 7 8	Work in progress departmentally.
Not commenced yet.	31st May 1895	1,923 11 4	Contract let to Messrs. Littlewood and Pallonji.
April 1891.....	30th Sept. 1894	.....	Repairs of vaults commenced in April by Indian Patent Stone Company.
30th Mar. 1894	May 1895	555 10 0	Pipes received. Laying in progress by Messrs. Littlewood, Pallonji & Co.
24th Dec. 1893...	May 1894	2,527 8 5	In progress by contract with Messrs. Framji Sorabji and Co.
1st Jan. 1894 ...	May 1894	897 0 0	In progress by Contract with Purbhat Mowjee.
Not commenced yet.	.....	.....	Pipes received ; one estimate submitted for sanction.
Do.	31st May 1894	.....	Sanctioned in March 1894. To be carried out by Mr. Framji Sorabji and Co.
19th Mar. 1894	Dec. 1894	.....	Sanction received to purchase the number required.
19th Mar. 1894.....	Dec. 1894	.....	Tender of Mr. Dhunjibhai Framji accepted.
Do.	April 1895	45 2 0	Tender of Messrs. Littlewood Pallonji and Co. accepted.

Name and Description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
II.—SEWERAGE SURFACE DRAINAGE AND HOUSE CONNECTIONS.	Rs.			
WORKS COMPLETED.				
22. Queen's Road and Girgaum Sewerage and house connection works	11,14,929	Cur. rev ...	28th July 1887 ...	28th July 1887 ...
23. Construction of pipe sewers in Parel Village Main Road and Government House Road, Parel	77,603	Loan ...	14th Jan. 1892 ...	14th Jan. 1892 ...
24. New latrines and urinals.....	(a) 22,344-15-11 + 12,000-0-0	Cur. rev.	16th Oct. 1889 ...	16th Oct. 1889 ...
	34,344-15-11			
25. Arching over the Main drain at Arthur Road Crossing	18,000	Loan ...	14th Jan. 1893 ...	.....
26. Construction of Metal vent shaft at Ripon Road Sewer	3,047	Cur. rev ...	1st March 1892 ...	.....
27. Constructing pipe sewers and metal vent shafts in Parel village.	20,852	Loan... ...	25th Feb. 1892.	25th Feb. 1892 ...
28. Experimental Drainage Works.	10,000	Sur. cash balance ...	8th Sept. 1892	8th Sept. 1892 ...
29. Diverting pipe sewers along the site of the proposed overbridge at Falkland Road to allow the construction of the bridge.	10,338	Cur. rev ...	23th Aug. 1890	23th Aug. 1890 ...
30. Construction of a chowki for the Chief Inspector of Drains at Foras Road.	2,474	Do.... ...	Budget for 1893-94.	1st March 1893 ...
WORKS IN PROGRESS.				
31. House connections without privy fittings in the first section of Drainage Scheme.	(b) 5,78,611-14-4	Loan... ...	8th Dec. 1881	5th May 1885 ...
32. Automatic flushers at heads of gullies	5,570	Do.	Do. ...	Do. ...
33. House connections in Agripada District	2,48,642	Loan ...	8th October 1888 ...	1st July 1890 ...
34. Arrangements for flushing Parel and Bellasis Road storm water drain from Babula Tank and Nagpada Tank.	* 4,295-10-1	Cur. rev ...	23rd Jan. 1890 ...	1st Mar. 1890 ...

(a) Renewed grant... ... ...
Add—Grant budgetted for 1892-93 ... ...

(b) House connections without privy fittings ... ...
Add—Transferred from Argyle Road, Standing Committee's Resolution No.

Less—Amount transferred to meet excess on Pumping Engines, Town Council's

* Budget grant ... ...
Add—Transferred from Item 12, Detailed Statement No. 12, Budget Estimate for 1892-93

APPENDICES TO RECORD.

Date of commencement of the Work.	Probable Date of completion of the Work.	Certified Expenditure up to the end of 31st March 1894.	Remarks.
		Rs. a. p.	
Nov. 1888..	12th May 1891 ...	89,153 8 9	Work entrusted to Messrs. Bulkley & Co. and completed on 12th May 1891. Final accounts with them are adjusted. Some portion is being carried out departmentally.
26th April 1892 ...	22nd Jan. 1893 ...	15,853 11 8	Work completed. Accounts are to be adjusted.
6th Dec. 1889 ...	.....	6,165 1 7	The work of construction of latrines and urinals in Bhajipala Road, Erskine Road, Jakaria Musjid and Dalal Street has been completed. The work of constructing latrines and urinals in Kennedy Sea Face Garden, Custom House Road, Pulton Road, Jairajbhai Street and Musjid Road is in progress.
10th Dec. 1892 ...	5th Jan. 1894. ...	12,263 6 5	Work completed. Accounts to be adjusted.
14th Feb. 1893. ...	7th May 1893. ...	1,527 3 7	Work completed. Accounts to be adjusted.
5th July 1892.....	31st Oct. 1893.....	6,883 4 10	Work completed and Accounts are to be adjusted.
30th Nov. 1892.....	.....	7,693 4 1	Work was carried out departmentally and is completed, but some experiments are being carried out in Municipal Workshops, &c., on suggestion of Mr. Wallace.
1st Nov. 1890.....	.....	9,418 10 1	Work completed and the Accounts are to be adjusted.
.....	.....	2,155 8 3	Work completed. Accounts to be adjusted.
{ 8th Jan. 1887. 25th Jan. 1892.	31st July 1888 31st July 1893	2,34,798 12 10	Khetwadi section of the work is done; other portions in progress.
Do. ...	Do. ...	.....	Work ordered to be proceeded with departmentally but stopped pending decision of Corporation as regards house-connections in general.
20th Oct. 1890.....	15th Oct. 1892.....	2,23,148 12 7	The whole of the contract work was completed before 30th September 1892, except connections to two houses and five vent shafts. House connection work is stopped in accordance with Corporation's Resolution No. 3142, dated 30th June 1892.
21st April 1891	.....	3,294 8 10	The work at Nagpada Tank is stopped as the tank is proposed to be filled up.

... ...	Rs. 22,344 15 11
... ...	„ 12,000 0 0
	Total Rs. 34,344 15 11
... ...	Rs. 5,71,165 0 0
5192, dated 20th June 1888	„ 19,046 14 4
	Rs. 5,90,211 14 4
Resolution No. 52, dated 13th January 1882	„ —11,600 0 0
	Rs. 5,78,611 14 4
... ...	Rs. 3,844 0 0
... ...	„ 451 10 1
	Total...Rs. 4,295 10 1

Name and Description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
	Rs.			
II.—SEWERAGE, SURFACE DRAINAGE AND HOUSE CONNECTIONS—*(contd.)*				
WORKS IN PROGRESS—*(contd.)*				
35. Construction of sewer flushing arrangements.	14,000	Loan.....	23rd Jan. 1890 ...	1st Mar. 1890 ....
36. Engraving numbers on manhole covers.	293	Cur. rev.....	Budget for 1893-94.	1st Mar. 1893 .....
37. Twenty-seated latrines at Mahim.	3,000	Renewed grant.	Comr.'s No. 11723 6-9-93.	Do. .....
38. Paving and V-draining the van siding behind the sheep and cattle slaughter houses at Bandora.	9,830	Cur. rev.....	Budget for 1893-94.	1st Mar. 1893 .....
39. Erecting metal vent shafts in Abdool Rahiman Street.	2,077	Do. ...	Do. ...	Do. .....
WORKS TO BE COMMENCED.				
40. Providing latrine and urinal to the Engineer's office, A Ward.	500	Do. ...	Do. ...	Do. ....
41. Latrines for grave digger's chawl Arthur Road.	200	Do. ...	Do. ...	Do. .....
42. Constructing a 12-chamber latrine at Worli Middle Pakhadi.	3,010	Do. ...	Do. ...	Do. .....
43. Constructing a 12-chamber latrine at Worli Pakhadi.	2,240	Cur. rev. ...	Do. ...	Do. .....
44. Filling in compound of the Small-pox Hospital at Arthur Road and constructing a slab drain.	6,631	Do. ...	Do. ...	Do. .....
III.—ROADS, BUILDINGS, &c.				
WORKS COMPLETED.				
45. Night-soil depot near the junction of DeLisle and Parbhadevi Road.	26,394	Do. ...	25th Apr. 1883 ...	25th April 1888 .....
46. Reconstructing portion of Gibb's Road..	46,200	Sur. cash balance.	10th Nov. 1892 ...	10th Nov. 1892 ...
47. Filling in Municipal ground and building a retaining wall in front of house of Mr. Jaikisondas Gangadas at Walkeshwar Road.	4,743	Cur. rev....	Budget for 1892-93	1st March 1892 ...
48. Foras Road Market	50,000	Loan ...	17th Apr. 1890 ...	25th Sept. 1890 ...
49. Halalkors' Chawls in Cursetji Suklaji's Street.	97,847	{ 35 Lakhs Loan.	{ 23rd Jan. 1890 ...	Nov. 1890...
50. Ground at the junction of Kalbadevi and Bhuleshwar Rs. 40,814 Bhuleswar Fire Brigade Station ... ... „ 12,001	52,815	{ 4½ Lakhs Loan.	{ 3rd Sept. 1891 ...	3rd Sept. 1891 ...

APPENDICES TO RECORD.

Date of commencement of the Work.	Probable Date of completion of the Work.	Certified Expenditure up to the end of 31st March 1891.	Remarks.
		Rs. a. p.	
20th Sept. 1891...	31st March 1891 ...	14,423 7 7	Work in progress.
1st Dec. 1893 ...	.....	162 0 0	Work in progress
.....	.....	30 0 0	Iron work completed.
.....	.....	136 3 9	The Tender of Messrs. Spencer & Co. has been accepted and the work is in progress.
.....	.....	.....	Work is in progress.
.....	.....	.....	The matter has been allowed to stand over as per Municipal Commissioner's No. 26603, dated 8th March 1894.
.....	.....	.....	The matter has been deferred as per Health Officer's No. 23639 of 14th November 1893.
.....	.....	.....	The Work is stopped pending acquisition of land.
.....	.....	.....	Do. do. do.
.....	.....	.....	A contract form is prepared and tenders will shortly be invited.
13th May 1892 ...	10th Jan. 1893 ...	1,948 0 3	Work completed and accounts adjusted; some extra works proposed by the Health Officer will shortly be entrusted to the Petty works contractors.
.....	.....	38,066 13 7	Road slopes and catch-pit water channel completed. Parapet wall will be constructed if found necessary after the rains. The work of diverting pipes is taken in hand.
13th Feb. 1893 ...	13th June 1893 ...	3,131 15 10	Work which was entrusted to Mr. Lakhmidas Shamji has been completed. Accounts are to be adjusted.
5th July 1892 ...	10th Aug. 1893 ...	39,880 12 7	Work completed. Accounts are to be adjusted.
19th June 1891 ...	30th Oct. 1892 ...	88,400 8 2	Work completed. Accounts to be adjusted.
11th Apr. 1893 ...	8th Dec. 1893 ...	10,820 13 8	Completed; accounts being closed.

Name and Description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
	Rs.			
III.—ROADS, BUILDINGS, &c.—*(contd.)*				
WORKS COMPLETED—*(contd.)*				
51. Fire Brigade Station at Mazagon, Pedder Market.	7,721	4½ Lakhs Loan.	3rd Sept. 1891. ...	3rd Sept. 1891. ...
52. Fire Brigade Station, Mâhim Garden ...	6,564	Do. ...	Do. ...	Do.
53. Fire Brigade Station at DeLisle Road—Including the cost of making a road... ... ... Rs. 14,276 Cost of land... ... ... ,, 7,247 Cost of filling in ... ... ,, 6,503	28,026	Do. ...	Do. ...	Do.
54. Construction of a detached pork shop at the Pedder Market.	1,354	Cur. rev. ...	Budget for 1893-94.	1st March 1893 ...
55. Extension of the Mutton Markets, &c., Crawford Market.	49,942	Loan ...	26th Mar. 1888 ...	26th March 1888 ...
56. Chaukies for Depot Mucadams, A-3, B-4, C-1, D-3, E-4, F-3, and G-3, in all 21, at Rs. 80 each.	1,680	Cur. rev. ...	Budget for 1893-94.	1st March 1893 ...
57. Paving round the statuary and constructing ornamental wrought-iron fencing to the same in front of the New Municipal Building and constructing fencing with gates, walls, &c., on the north side of the private road to the north of the building.	7,276	Cur. rev. ...	Budget for 1893-94.	1st March 1893 ...
58. Fire Brigade Station, Fort	36,201	4½ Lakhs Loan.	3rd Sept. 1891.	3rd Sept. 1891 ...
59. Bullock Shed at Bandora Slaughter House.	1,950	Loan ...	12th June 1893 ...	12th June 1893 ...
60. Construction of a road across Khandia Tank in extension of Khandia Street.	4,637	Cur. rev. ...	Budget for 1893-94.	1st Mar. 1893 ...
WORKS IN PROGRESS.				
61. Roads and streets in Agripada and elsewhere.	22,50,000	Loan ...	13th May 1889 ... 11th Jan. 1893 ...	13th May 1889 11th Jan. 1893
62. Making of streets which have become public under Municipal Act.	5,000	Do. ...	Do. ...	Do. ...
63. Health Department Stables in F and G Wards.	78,744	Loan ...	Corporation Reso. No. 12246 16th Feb. 1893.	25th Sept. 1893 ...
64. Fire Brigade Station, Babula Tank .....Rs. 36,569 Filling in of Tank ,, 21,716	58,285	4½ Lakhs Loan.	3rd Sept. 1891. ...	3rd Sept. 1891. ...
65. Quarters for the Chief Inspector, Water Works .....Rs. 29,612 Filling in Babula Tank (a) ,, 21,026	50,638	Water Works Department.	Do. ...	Do. ...
66. Sankli Tank Fire Bde. Stn. Rs.1,079,051 Filling in ..... ,, 67,197 Acquisition of land ..... ,, 33,104	2,08,206	4½ Lakhs Loan.	Do. ...	Do. ...

(a) Out of this sum, Rs. 4,278 should be

APPENDICES TO RECORD.

Date of commencement of the Work.	Probable Date of completion of the Work.	Certified Expenditure up to the end of 31st March 1894.	Remarks.
		Rs. a. p.	
5th Jan. 1893 ...	29th Aug. 1893 ...	7,314 14 7	Completed. Accounts to be adjusted.
25th Feb. 1893 ...	30th Nov. 1893 ...	6,404 11 6	Completed. Accounts being closed.
7th Jan. 1893 ...	31st Dec. 1893 ...	19,546 3 5	Do. do.
17th Sept. 1893 ...	17th Nov. 1893 ...	1,093 10 1	Completed. Accounts are to be adjusted.
31st Oct. 1892 ...	15th Jan. 1894 ...	33,913 11 0	Work completed. Accounts being closed.
23rd Sept. 1893 ...	31st Dec. 1893 ...	1,680 0 0	Work completed.
6th Dec. 1893	7th March 1894	3,209 10 3	Work completed. Accounts being closed.
11th Jan. 1893.....	Do.	18,321 1 4	Work completed. Accounts being closed.
.....	.....	1,299 0 11	Work completed.
18th Oct. 1893	17th Jan. 1894.....	110 3 3	Nearly completed.
.....	.....	22,28,929 15 10	Four roads are in progress, *viz.*, Club Road, Morland Road, Soutor Road, Gilder Street.
.....	.....	229 15 10	In progress.
18th Oct. 1893	31st July 1894	19,262 7 9	Work in progress.
5th May 1893.....	3rd June 1894	18,146 11 10	Work of filling in tank in progress. This includes the amount expended on filling in Babula tank, for building the Chief Inspector's quarters.
Do	Do.	.....	
4th Nov. 1892.....	10th Nov. 1893	92,800 10 10	Filling in completed. The construction work will be undertaken when the filling is well consolidated by rain.

charged to Street Improvement Grant.

Name and Description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
III.—ROADS, BUILDINGS, &c.—*contd.*	Rs.			
WORKS IN PROGRESS—(*contd.*)				
67. Fire Brigade Station at Dadar Rs.8,208 Filling in portion of Naigam Tank ..... „ 2,194	10,402	4½ Lakhs loan.	3rd Spt. 1891 ...	3rd Sept. 1891 ...
68. Fire Brigade Station, Colaba	26,468	Do. ...	Do. ...	Do. ...
69. Sheep and Goat Market at DeLisle Road.	16,000	Surplus Cash Balance.	7th Sept. 1893 ...	7th Sept. 1893 ...
70. A cage for two Kathiawar Lions.....	5,046	Surplus Cash Balance Rs. 2,546	7th Sept, 1893. ...	7th Sept. 1893. ...
71. Providing teak wood ornamental screen in the New Municipal Office buildings to form a retiring room for female Clerks.	375	Contingencies provided in the allotment for the construction of the New Municipal Office buildings	Commr's. No. 20851 9th Jan. 1894.	.....
72. Furnishing and fitting up a room for the Members of the Municipal Corporation on the ground floor of the Municipal Office.	845	Savings on the grant for furnishing Offices Contingencies Building Loan ...	Corp. Reso. No. 8967 7th Dec. 1893.	.....
73. Enclosing with teak wood windows and Porebunder work the verandah on the west side and the passage on the North of the Revenue and Refund Office.	1,519			.....
74. Providing certain articles of furniture in the New Municipal Office.	132	Provision for furniture.	Commr's. No. 19090 15th Dec. 1893	.....
75. Retaining wall extension, Walkeshwar Road.	9,150 5,000	Cur. rev.	16th Jan. 1889...	16th January 1889...
WORKS TO BE COMMENCED.				
76. New Market at Colaba.....	50,300 50,000	Loan ...	26th Mar. 1888 ...	26th Mar. 1888 ...
77. Purchase of land for chawls for the biggaris who clean the Arthur Crawford Market and building the chawls.	22,700	Loan ...	25th Apr. 1888 ...	25th April 1888 ...
78. Health Department Biggaris' Chawl at Bori Bander	66,000	Do	Corporation Reso. No. 12246 16th Feb. 1893.	.....
79. Footbridge over the G. I. P. Railway at Byculla on the road from Parel Road to the Junction of DeLisle Road and Haines Road	10,943	Cur. rev. ...	Budget for 1893-94.	1st Mar. 1893 ...

APPENDICES TO RECORD.

Date of commencement of the work.	Probable Date of completion of the work.	Certified Expenditure up to the end of 31st March 1894.	Remarks.
		Rs. a. p.	
21st Feb. 1893	30th April 1893	1,982 10 1	Filling in completed.
30th Oct. 1893	30th April 1894	13,003 15 2	Work in progress.
12th Dec. 1893.....	12th June 1894.....	1,803 15 3	Work in progress.
15th Nov. 1893.....	15th Feb. 1894.....	1,101 8 11	Work in progress.
8th March 1894.....	.....	.....	Work in progress.
8th March 1894.....	.....	.....	Do.
8th March 1894.....	.....	.....	Do.
8th March 1894.....	.....	.....	Do.
14th Jan. 1892 ...	.....	12,819 0 10	Work recommenced.
.....	.....	50,349 6 8	Tenders accepted ; work shortly to be commenced.
.....	.....	.....	It is proposed to build the chawls on the Municipal ground on the east of the Health Department bullock stables at Paltan Road. Tenders invited.
.....	.....	783 14 8	Tender of Messrs. Framroz & Co. has recently been accepted. Work cannot be commenced until the existing chawls are vacated by the Health Department.
.....	.....	10,913 0 0	Amount made over to G. I. P. Railway Company for the construction.

BOMBAY MUNICIPALITY.

Name and Description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
	Rs.			
III.—ROADS, BUILDINGS, &c.—*contd.*				
WORKS TO BE COMMENCED—*contd.*				
80. Fire Brigade Station, Gamdavi.....	8,273	4½ Lakhs Loan ...	3rd Sept. 1891 ...	3rd Sept. 1891 ...
81. Do. do. Chinchpokli	7,209	Do. ...	Do.	Do. ...
82. Extension of Bhuleshwar Market	4,50,000	Loan ...	9th July 1888 ...	9th July 1888 ...
83. Health Department Bullocks Stables and quarters for sweepers	1,50,000	35 Lakhs Loan ...	17th Apr. 1890 ...	25th Sept. 1890 ...
84. Road through Nowrojee Hill from Elphinstone Bridge to Dongri Street	3,32,023	Loan ...	26th March 1888 ...	26th March 1888 ...
85. Fencing Municipal ground at Dadar...	572	Cur. rev ...	Budget for 1893-91.	1st Mar. 1893 ...
86. Fencing the ground of Metal depôt at Sonapur	2,000	Do. ...	Do.	Do. ...
87. Providing canvas screens to windows on south side of the Council Hall, New Municipal Building.	276	Contingencies for the new Municipal Office Building.	Commissioner's No. 19090, 15th Dec. 1893	.....

APPENDICES TO RECORD.

Date of commencement of the work.	Probable Date of completion of the work.	Certified Expenditure up to the end of 31st March 1894.	Remarks.
		Rs. a. p.	
.....	.....	80 10 0	Plans ready.
.....	.....	75 0 0	Tenders were invited but favourable ones not having been received, they will be reinvited.
.....	.....	2,91,202 6 2	Land acquired. Plans submitted to Government for approval.
.....	.....	44,137 1 5	Under consideration.
.....	.....	75 0 0	Negotiations at a standstill.
.....	.....	.....	Under consideration.
.....	.....	.....	Work not required.
.....	.....	.....	Tender accepted.

BOMBAY MUNICIPALITY.

PROGRESS REPORTS UP TO THE END OF JUNE 1894

Under the Executive

Name and Description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
	Rs.			
1.—WATER WORKS.				
WORKS COMPLETED.				
1. Repairs to Bhandarwada Reservoir additional work.	7,290 + 721 4 0 8,011 4 0	Cur. rev.	5th May 1893	5th May 1893 .....
2. Alteration of 22 dipping wells, &c.....	4,163	Balance out of Budget for 1891-92 and previous one.	.....	.....
3. Allowance for fixing gratings at siphon heads and tails.	250	Loan	23rd Feb. 1893.....	23rd Feb. 1893.....
4. Additional work, Ghatkopar Bridge...	1,600	Do.	Do. ...	Do. ...
5. Work at basis of cabins, say 16 @ Rs. 110	1,760	Do.	Do. ...	Do. ...
6. Earth filling and loose stone pitching in No. 4 Division.	305	Do.	Do. ...	Do. ...
7. Dry rubble pitching on siphon No. 5...	4,600	Do.	Do. ...	Do. ...
WORKS IN PROGRESS.				
8. Repairs to Tulsi main embankment..	22,000+ 13,000	Cur. rev	14th Jan. 1892..... 27th Jan. 1892....	14th Jan. 1892 1st Mar. 1892
9. Connections at Chinchpokli between Tansa and Vehar mains.	7,161	Loan	16th June 1892	16th June 1892 ....
10. Provision of fire buckets and hose for Municipal Markets.	6,203	Cur. rev	23rd Jan. 1890..... 6th Feb. 1893.....	23rd Jan. 1890 6th Feb. 1893
11. Covering storage basin at the Bhundarwada Reservoir and constructing filter over it.	44,500 1,15,500 1,60,000	Loan	14th Jan. 1892..... 6th Feb. 1893.....	14th Jan. 1892 1st Mar. 1893
12. Further alteration and improvements at the Malabar Hill Reservoir.	75,000	Do.	6th Feb. 1893 ...	Do. ...
13. Extension of water mains in various places.	30,000	Do.	Do. ...	Do. ...
14. Ghatkopar strainers	12,000	Do. ...	23rd Feb. 1893.....	23rd Feb. 1893.....
15. Memorial structure at Tansa	2,628	Do. ...	Do. ...	Do. ...
16. Masonry required at Ghatkopar clearing sluice.	2,500	Do. ...	Do. ...	Do. ...
17. Renewing boundary marks	2,000	Do. ...	Do. ...	Do. ...
18. Flooring Bassein bridge and culverts..	13,000	Do. ...	Do. ...	Do. ...
19. Widening embankment at Bassein Creek.	10,000	Do. ...	Do. ...	Do. ...
20. Earth filling at Mori Road, Mahim ...	911	Cur. rev. ...	19th April 1894.....	19th April 1894.....
WORKS TO BE COMMENCED.				
21. Screen wall at Chinchpokli Stores.....	700	Cur. rev. ...	10th May 1894	10th May 1894 .....
Renewals of existing mains	1,00,000 1,00,000 25,000	Do. ... Do. ... Do. ...	27th Jan. 1892 ..... 30th Jan. 1893 ..... 8th Jan. 1891	1st Mar. 1892 ... 1st Mar. 1893 ... 1st Mar. 1891 ...

OF NEW WORKS IN COURSE OF CONSTRUCTION.

Engineer, Municipality.

Date of commencement of the Work.	Probable Date of completion of the Work.	Certified Expenditure up to the end of June 1894.	REMARKS.
		Rs. a. p.	
July 1893.....	23rd July 1893	7,802 4 0	Work by contract is finished. Departmental work to be done.
May 1892.....	April 1891	3,766 8 5	Work completed. Final Accounts being adjusted.
June 1893.....	July 1894	158 8 3	Work completed departmentally. Final accounts are being adjusted.
April 1893.....	Do.	1,353 5 6	Work completed by Messrs. Sorabji Framji & Co., final account is being adjusted.
Do.	Do.	783 4 10	Work completed departmentally; final account is being adjusted.
Do.	Do.	224 0 2	Do. do. do. do.
Do.	Do.	2,447 7 8	Do. do. do. do.
11th Mar. 1892	31st Mar. 1895	24,778 3 4	Work in progress by contract with Mr. Ardeshir Framji.
July 1892.....	.....	7,402 1 4	Work in progress departmentally. Cannot be completed until the dispute with the G. I. P. Ry. is settled. Sanction to the excess applied for.
May 1892.....	July 1894	3,371 13 1	Hose received, buckets provided and fixed and pipe laying is almost completed.
Not commenced yet	May 1896	2,707 3 10	Contract let to Messrs. Littlewood and Pallonji.
April 1894.....	.....	16,485 1 6	Repairs of vaults completed by the Indian Patent Stone Company. Other works are postponed.
30th Mar. 1894	May 1895	9,302 15 9	Laying of pipes is in progress by Messrs. Littlewood, Pallonji & Co.
24th Dec. 1893.....	May 1894	7,353 0 3	Work almost completed by Messrs. Framji Sorabji & Co.
1st Jan. 1894.....	May 1894	1,433 4 0	Work almost completed by Mr. Purbat Mowjee.
May 1894	July 1894	545 2 5	Do. do. by Messrs. Framji Sorabji & Co.
19th Mar. 1894	Dec. 1894	73 14 0	Work in progress departmentally.
Do.	Do.	499 13 9	Work in progress by Messrs. Dhunjibhai Framji.
Do.	April 1895	3,044 11 7	Do. by Messrs. Littlewood, Pallonji & Co.
9th May 1894	31st Mar. 1895	.....	Do. by Mr. Ardeshir Framji.
July 1894	Sept. 1894	.....	Work entrusted to petty works contractor.
Not commenced yet.	.....	.....	Pipes received; one estimate submitted for sanction.

Name and Description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
II.—SEWERAGE, SURFACE DRAINAGE AND HOUSE CONNECTIONS.	Rs.			
WORKS COMPLETED.				
23. Queen's Road and Girgaum sewerage and house connection works.	11,14,128	Cur. rev. ...	28th July 1887 ...	28th July 1887 ...
24. New latrines and urinals.....	(a) 22,344-15-11 + 12,000-0-0 = 34,344-15-11	Do.	16th Oct. 1889 ...	16th Oct. 1889 ...
25. Arching over the main drain at Arthur Road crossing.	18,000	Loan ...	14th Jan. 1892 ...	.....
26. Experimental drainage works.....	10,000	Sur. Cash Balance	8th Sept. 1892 ...	8th Sept. 1892 ...
27. Engraving numbers on manhole covers.	290	Cur. rev. ...	Budget for 1893-94.	1st March 1893 ...
28. Erection of (9) nine flushing tanks at the heads of gullies selected by the Health Officer.	1,000	Sur. Cash Balance	18th Nov. 1893 ...	18th Nov. 1893 ...
29. Construction of (49) forty-nine side entrances at Frere Road sewer.	5,008	Do. ...	9th May 1894 ...	9th May 1894 ...
WORKS IN PROGRESS.				
30. House connections without privy fittings in the first section of Drainage Scheme.	5,78,611-14-4	Loan... ...	8th Dec. 1881 ...	5th May 1885 ...
31. Automatic flushes at heads of gullies.	5,570	Do.	Do. ...	Do. ...
32. House connections in Agripada District	2,18,642	Do.	8th October 1888 ...	1st July 1890 ...
33. Arrangements for flushing Parel and Bellasis Roads storm-water drain, from Babula Tank and Nagpada Tank.	4,295-10-1	Cur. rev. ...	23rd Jan. 1890 ...	1st Mar. 1890 ...
34. Construction of sewer flushing arrangements.	14,900	Loan.....	23rd Jan. 1890 ...	1st Mar. 1890 ....
35. Paving and V-draining the van siding behind the sheep and cattle slaughter houses at Bandora.	9,830	Cur. rev.....	Budget for 1893-94.	1st Mar. 1893 .....
36. Erecting metal vent-shafts in Abdul Rahiman Street.	2,077	Do. ...	Do. ...	Do. .....
37. Construction of storm-water drain at Kalachauki Road.	10,531	Cur. rev. ...	Budget for 1894-95.	1st March 1894 ...
38. Reconstruction of latrines at Kharsetji Suklaji Street and Arthur Crawford Markets.	2,439	Do.	Do. ...	Do. ... ...

(a) Renewed grant ... ... Rs. 22,344 15 11
Add—Grant budgetted for 1892-93 ... ... „ 12,000 0 0
Total...Rs. 34,344 15 11

APPENDICES TO RECORD.

Date of commencement of the Work.	Probable Date of completion of the Work.	Certified Expenditure up to the end of June 1894.	Remarks.
		Rs. a. p.	
Nov. 1888..	.....	8,91,819 8 9	Work entrusted to Messrs. Bulkley & Co. and completed on 12th May 1891. Final accounts with them are adjusted. Some portion is being carried out departmentally.
.....	.....	593 5 11	The work of construction of latrines and urinals in Kennedy Sea Face Garden, Custom House Road, Paltan Road, Jairajbhai Street and Naran Dharu Street have been completed. The work of constructing latrines and urinals at Grant Road, Kolbhat Road, and Agiary Street is in progress.
10th Dec. 1892 ...	{ 5th Jan. 1894 ... } { 18th May 1894 }	15,411 0 0	Work completed. Accounts adjusted. The work of repairing a wooden bridge is also completed. Accounts are to be adjusted.
30th Nov. 1892.....	.....	7,792 10 2	Work completed. Some experiments are being made by Mr. Wallace and Mr. David Gostling.
1st Dec. 1893 ...	12th May 1894.....	263 5 0	Work completed. Accounts to be adjusted.
22nd Dec. 1893 ...	28th June 1894	585 7 1	Work completed and accounts are being adjusted.
29th Feb 1894 ...	11th June 1894	4,084 8 10	Works completed. Accounts to be adjusted.
{ 8th Jan. 1887. { 25th Jan. 1882.	31st July 1888 } 31st July 1893 }	2,34,890 8 4	Khetwadi section of the work is done; other portions in progress. Work ordered to be proceeded with departmentally, but stopped, pending decision of Corporation as regards house-connections in general.
Do. ...	Do. ...		
20th Oct. 1890.....	15th Oct. 1892.....	2,23,137 8 10	House connection work is stopped in accordance with Corporation Resolution No. 3142, dated 30th June 1892. The work of constructing metal vent-shafts at Agripada has been entrusted to petty work contractors.
30th June 1894	31st Dec. 1894	3,294 8 10	The work of Nagpada Tank is entrusted to petty work contractors. The work at Babula Tank is completed.
20th Sept. 1894 ...	31st Dec. 1894.....	11,705 12 10	Work in progress.
2nd April 1894	15th August 1894 ...	3,639 1 4	The work is in progress.
25th June 1894	25th Oct. 1894	.....	Work has been entrusted to the petty work contractors.
7th May 1894 ...	1st Sept. 1894	990 15 4	Work in progress.
12th June 1894	30th Sept. 1894	.....	The work is being carried out departmentally.

Name and Description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
	Rs.			
II.—SEWERAGE, SURFACE DRAINAGE AND HOUSE CONNECTIONS—*(contd.)*				
WORKS IN PROGRESS—*(contd.)*				
39. Connecting the houses Nos. 5 to 9, Dammer Lane.	535	Loan ...	4th May 1894	4th May 1894
40. Laying a 9" pipe sewer at Lalwadi. ...	2,579	Do.	7th Sept. 1893	7th Sept. 1893
41. Brick work in connection with the Economizer at Love Grove.	974	Do.	17th July 1893	17th July 1893
42. Electric light installation at the new engine-house at Love Grove.	975	Do.	1st Feb. 1894	1st Feb. 1894
43. Improving and enlarging the existing storm-water drains in Chamar Lane.	7,813	Cur. rev.	Budget for 1894-95	1st March 1894
44. Paving the flooring of the old boiler-house at Love Grove.	1,245	Do.	Do.	Do.
45. Fencing around the Engineer's bungalow at Love Grove.	519	Do.	17th March 1894	17th March 1894
WORKS TO BE COMMENCED.				
46. Providing latrine and urinal to the Engineer's Office, A Ward.	500	Do.	Budget for 1893-94	1st March 1893
47. Latrines for grave-diggers' chawl, Arthur Road.	200	Do.	Do.	Do.
48. Constructing a 12-chamber latrine at Worli Middle Pakhadi.	3,010	Do.	Do.	Do.
49. Constructing a 12-chamber latrine at Worli Pakhadi.	2,240	Do.	Do.	Do.
50. Filling in compound of the Small-pox Hospital at Arthur Road and constructing a slab drain.	6,631	Do.	Do	Do.
51. Removal of A, B, C Wards Drainage Chauki from Charni Road to Mint Road.	1,507	Do.	Budget for 1894-95.	1st March 1894
52. Reconstruction of the latrine in Dongri Street.	1,192	Do.	Do.	Do.
53. Construction of a hopper at the Sonapur Night-soil Depôt.	2,118	Do.	Do.	Do.
54. Water closet accommodation at C and E Wards.	1,400	Do.	Do.	Do.
55. Constructing a hopper at Parel Village.	1,556	Do.	Do.	Do.
56. Providing catch-pits at the junctions of pipe drains to intercept rubbish from going into the main sewer.	15,000	Loan ...	.....	.....
57. Pipe sewer in Kalachauki Road to join Arthur Road pipe sewer.	12,000	.....	.....	.....
58. Proposed arrangement of pipe sewer manholes for discharging sewage from one level to another without splash.	5,471	Loan ...	.....	.....
59. Special tidal flap for the mouth of Sonapur drain.	4,400	Do.	.....	.....
60. Storm-water drain in Dadar Road from Police Chauki to Portuguese Church.	4,853	Do.	.....	.....

APPENDICES TO RECORD.

Date of commencement of the Work.	Probable Date of completion of the Work.	Certified Expenditure up to the end of June 1894.	REMARKS.
		Rs. a. p.	
28th May 1894 ...	30th Sept 1894. ...	.....	Work in progress.
1st Feb. 1894 ...	31st Aug. 1894 ..	580 15 11	Do. do.
13th Dec. 1893 ...	Do.	.....	Do. do.
March 1894 ...	.....	681 3 8	Do. do.
7th May 1894 ...	1st Sept. 1894 ...	896 2 4	Do. do.
20th June 1894 ...	30th Sept. 1894 ..	.....	Do. do.
20th March 1894 ..	31st July 1894 ...	278 10 5	Do. do.
.....	.....	.....	The matter has been allowed to stand over by the Municipal Commissioner until the question of the erection of the New A Ward Office, &c., and the sale of land on Mint Road is settled.
.....	.....	.....	The matter has been allowed to stand over as required by the Health Officer until the question of a chawl for grave diggers is settled.
.....	.....	.....	The work is stopped, pending acquisition of land.
.....	.....	.....	Do. do. do.
.....	.....	112 8 0	The rates in the tenders received being in excess of the office estimate, fresh tenders for the work have been invited and received and are now under consideration.
.....	.....	.....	The work has been allowed to stand over by the Municipal Commissioner until the question of sale of land on Mint Road is settled.
.....	.....	.....	Proposal to carry out the work has been submitted to the Commissioner through the Executive Engineer.
.....	.....	.....	Do. do.
.....	.....	.....	Plans and estimates being prepared.
.....	.....	.....	The Commissioner's sanction to entrust the work to the petty work contractors has been applied for.
.....	.....	.....	A contract form has been prepared and tenders will shortly be invited.
.....	.....	152 8 0	Tender of Messrs. Spencer and Company for the work has been accepted.
.....	.....	.....	Plans and estimates have been prepared and a contract form is being drawn up.
.....	.....	.....	Estimates and plans are being prepared.
.....	.....	.....	Do. do.

BOMBAY MUNICIPALITY.

Name and Description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
III.—ROADS, BUILDINGS, &c.				
WORKS COMPLETED.				
61. Night-soil depôt near the junction of DeLisle and Parbhadevi Roads.	26,391	Cur. rev. ...	25th April 1888 ...	25th April 1888 .....
62. Reconstructing portion of Gibbs Road..	46,200	Surplus Cash Balance.	10th Nov. 1892 ...	10th Nov. 1892 ...
63. Constructing the temporary chawls for Biggaries of the Health Dept. at Frere Road.	3,263	Do. ...	Corporation Resolution No. 1243 of 19th Feb. 1894.	19th Feb. 1894 ...
64. Foras Road Market	50,000	Loan ...	17th April 1890 ...	25th Sept. 1890 ...
65. Adding the Municipal ground to the public road in front of the Municipal Office.	1,890	Municipal Building Loan, 8 Lakhs.	Commissioner's No. 25280 of 20th Feb 1894.	.....
66. Fire Brigade Station, Colaba	26,463	4½ Lakhs Loan.	3rd Sept. 1891 ..	3rd Sept. 1891 ...
67. Ground at the junction of Kalbadevi and Bhuleshwar Rs. 40,811 Bhuleshwar Fire Brigade Station ... ... „ 12,004	52,815	4½ Lakhs Loan	3rd Sept. 1891 ...	3rd Sept. 1891 ...
68. Providing teakwood ornamental screen in the New Municipal Office buildings to form a retiring room for female clerks.	375	Contingencies provided in the allotment for the construction of the New Municipal Office Buildings.	Commissioner's No. 20851 of 9th Jan. 1894.	9th Jan. 1894 ...
69. Furnishing and fitting up a room for the Members of the Municipal Corporation on the ground floor of the Municipal Office.	845	Savings on the Grant for furnishing Offices. Contingencies. Building Loan.	Corp. Reso. No. 8967 of 7th Dec. 1893.	7th Dec. 1893 ...
70. Providing certain articles of furniture in the New Municipal Office.	132	Provision for Furniture.	Commr's. No. 19090 of 15th Dec. 1893	15th March 1893 ...
71. New masonry water drinking trough at Bori Bunder Stables.	538	Cur. rev. ...	Budget for 1894-95.	1st March 1894 ...
72. Construction of Silcher incinerator on Government ground on the right hand side of the Sion Road.	1,047	Savings of the Grant of earth for covering cutchra deposits. Health Department.	Corporation Resolution No. 1213 of 12th Feb. 1894	12th Feb 1894.....

APPENDICES TO RECORD.

Date of commencement of the Work.	Probable Date of completion of the Work.	Certified Expenditure up to the end of June 1894.			Remarks.
18th May 1892 ...	30th Sept. 1894 ...	19,489	0	3	Work completed and accounts adjusted; some extra works proposed by the Health Officer have been entrusted to the petty works contractors.
.....	.....	38,070	3	9	Road slopes and catch-pit water channel completed. Parapet wall will be constructed, if found necessary, after the rains. The work of diverting pipes is taken in hand.
13th April 1894 ...	27th May 1894 ...	2,166	1	8	Work completed; accounts being closed.
5th July 1892 ...	10th Aug. 1893 ...	40,499	14	11	Work completed; Accounts are to be adjusted.
17th Feb. 1894 ...	28th March 1894. ...	1,232	12	10	Do. do. do.
30th Oct. 1893.....	30th June 1894. ...	19,415	4	5	Works completed. Accounts to be adjusted.
11th April 1893 ...	8th Dec. 1893 ...	10,863	1	8	Completed; accounts being closed.
8th March 1894.....	7th April 1894. ...	270	0	0	Do. do.
8th March 1894.....	7th April 1894 ...	652	0	0	Do. do.
8th March 1894.....	7th April 1894 ...	113	0	0	Do. do.
18th April 1894	20th June 1894 ...	12	0	0	Do. do.
19th March 1894. ...	30th June 1894 ...	200	11	9	Do.

Name and Description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
	Rs.			
III.—ROADS, BUILDINGS, &c.—(*contd.*)				
WORKS COMPLETED—(*contd.*)				
73. Fire Brigade Station at DeLisle Road—Including the cost of making a road ... ... Rs. 14,276				
Cost of land ... ... „ 7,247				
Cost of filling in ... ... „ 6,503	28,026	4½ Lakhs Loan.	3rd Sept. 1891 ...	3rd Sept. 1891 ...
74. Extension of the Mutton Markets, &c., Crawford Market.	49,942	Loan ...	26th Mar. 1888 ...	26th March 1888 ...
75. Paving round the statuary and constructing ornamental wrought-iron fencing to the same in front of the New Municipal Building, and constructing fencing with gates, walls, &c., on the north side of the private road to the north of the building.	7,276	Cur. rev. ...	Budget for 1893-94.	1st March 1893 ...
76. Fire Brigade Station, Fort	36,201	4½ Lakhs Loan.	3rd Sept. 1891 ...	3rd Sept. 1891 ...
77. Construction of a road across Khandia Tank in extension of Khandia Street.	4,697	Cur. rev. ...	Budget for 1893-94.	1st March 1893 ...
WORKS IN PROGRESS.				
78. Roads and streets in Agripada and elsewhere.	22,50,000	Loan ...	13th May 1889 ... 11th Jan. 1893 ...	13th May 1889 11th Jan. 1893
79. Making of streets which have become public under Municipal Act.	5,000 5,000	Cur. rev ...	Budget for 1893-94. Budget for 1894-95.	1st March 1893 1st March 1894
80. Health Department Stables in F and G Wards.	78,744	Loan ...	Corporation Reso. No. 12246 of 16th Feb. 1893.	25th Sept. 1893 ...
81. Fire Brigade Station, Babula Tank .....Rs. 36,569				
Filling in of Tank..... „ 21,716	58,285	4½ Lakhs Loan.	3rd Sept. 1891 ...	3rd Sept. 1891 ...
82. Quarters for the Chief Inspector, Water Works .....Rs. 29,612				
Filling in Babula Tank (*a*) „ 21,021	50,633	Water Works Department.	Do. ...	Do. ...
83. Sankli Tank Fire Bde. Stn. Rs. 1,07,90				
Filling in ..... „ 67,19				
Acquisition of land ..... „ 33,10	2,08,206	4½ Lakhs Loan.	Do. ...	Do. ...
Enclosing with teakwood windows and Porebunder work the verandah on the west side and the passage on the north of the Revenue and Refund Office.	1,519	Savings on the Grant for furnishing Offices, Contingencies, Building Loan.	Corp. Reso. No. 8967 of 7th Dec. 1893.	7th Dec. 1893 ...

(*a*) Out of this sum, Rs. 4,278 is to be

APPENDICES TO RECORD.

Date of commencement of the Work.	Probable Date of completion of the Work.	Certified Expenditure up to the end of June 1894.	Remarks.
		Rs. a. p.	
7th Jan. 1893 ...	31st Dec. 1893 ...	24,662 2 6	Completed. Accounts not closed, as the extra works to be executed are in progress.
31st Oct. 1892 ...	15th Jan. 1894 ...	34,141 2 9	Work completed. Accounts being closed.
6th Dec. 1893 ...	7th March 1894 ...	5,388 3 5	Do. Do.
11th Jan. 1893 ...	Do. ...	18,793 7 10	Do. Do.
18th Oct. 1893 ...	17th Jan. 1894 ...	110 3 3	Work completed. Accounts to be adjusted.
* 14th Nov. 1893 ...	31st Dec. 1894 ...	22,72,850 3 8	Four roads are in progress, *viz.*, Club Road,† Morland Road,§ Souter Road,‡ Gilder Street.*
† 17th Nov. 1893 ...	24th Aug. 1894 ...		
‡ 7th Dec. 1893 ...	18th Aug. 1894 ...		
§ 31st Oct. 1893 ...	24th June 1894 ...		
1st March 1893 ...	.....	431 11 1	In progress. The work will be in progress during the year from time to time.
18th Oct. 1893 ...	31st July 1894 ...	32,080 9 7	Work in progress.
5th May 1893 ...	3rd Sept. 1894 ...	16,562 8 10	Work of filling in tank in progress.
Do ...	Do. ...	15,904 15 4	Do. Do.
4th Nov. 1892 ...	10th Nov. 1893 ...	93,582 14 10	Filling in completed. The construction work will be undertaken when the filling in is well consolidated by raid.
8th March 1894 ...	22nd April 1884 ...	822 4 5	Work nearly completed.

charged to Street Improvement Grant.

Name and Description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
III.—ROADS, BUILDINGS, &c.—(*contd.*)	Rs.			
WORKS IN PROGRESS—(*contd.*)				
85. New Market at Colaba.....	50,300 50,000	Loan ...	26th Mar. 1888 ...	26th Mar. 1888 ...
86. Laying tarred metal outside washing stones at Dhobiwada.	2,813	Cur. rev.	Budget for 1894-95.	1st March 1894 ...
87. Masonry tank with stone coping pavement drains, &c., at Bandora Slaughter House.	657	Do.	Do.	Do. ...
88. New iron drinking trough at the Kamatipura and Agripada Milch Cattle stables.	550	Do.	Do.	Do. ...
89. Railing and pailing for Municipal ground at Foras Road.	1,610	Do.	Corporation Reso. No. 305 of 5th April 1894.	5th Apr. 1894 ...
90. Extra furniture and alterations to furniture for the Municipal offices	3,736 12 0	Savings on the grant for furniture & fitting for new Municipal building.	Corporation Reso. No. 1639 of 10th May 1894.	10th May 1894 ...
91. Providing additional machinery and plant for lighting the Municipal office and the Arthur Crawford Market by electricity and for altering gear of the dynamo.	20,000	Surplus Cash Balance.	Corporation Reso. No. 11644 of 1st Feb. 1894.	1st Feb. 1894 ...
92. Fire Brigade Station at Dadur Rs. 8,208 Filling in portion of Naigam Tank Rs. 2,194	10,402	4½ Lakhs loan.	3rd Sept. 1891 ...	3rd Sept. 1891 ...
93. Sheep and Goat Market at DeLisle Road.	16,000	Surplus Cash Balance.	7th Sept. 1893 ...	7th Sept. 1893 ...
94. A cage for two Kathiawar lions.	5,046	Surplus Cash Balance, Rs. 2,546.	Do. ...	Do. ...
95. Paving with Indian Patent stone 1,500 sft. of compound of the Health Department Stables Camatipoora.	618	Do.	Corporation Reso. No. 301 of 5th Apr. 1894.	5th Apr. 1894 ...
96. Retaining wall extension, Walkeshwar Road.	9,150 5,000 19,353	Cur. rev. Surplus Cash Balance.	16th January 1889 Corp. Reso. No. 1849 of 14th May 1894.	16th Jan. 1889 ... 14th May 1894 ...
WORKS TO BE COMMENCED.				
97. Providing for the cost of repairing and re-erecting the gates of the Elphinstone Circle Garden.	2,910	Surplus Cash Balance.	Corporation Reso. No. 11916 of 5th Feb. 1894.	5th Feb. 1894 ...
98. Purchase of land for chawls for the biggaris who clean the Arthur Crawford Market and building the chawls.	22,700	Loan ...	25th Apr. 1888 ...	25th April 1888 ...
99. Health Department Biggaris' Chawl at Bori Bander.	66,000	Do.	Corporation Reso. No. 12246 of 16th Feb. 1893.	.....
100. Footbridge over the G. I. P. Railway at Byculla on the road from Parel Road to the Junction of DeLisle Road and Haines Road.	10,943	Cur. rev. ...	Budget for 1893-94.	1st Mar. 1893 ...

APPENDICES TO RECORD.

Date of commencement of the Work.	Probable Date of completion of the Work.	Certified Expenditure up to the end of June 1894.	Remarks.
		Rs. a. p.	
15th March 1894 ...	14th March 1895 ...	53,209 13 11	Work in progress. Foundations completed.
18th April 1894 ...	31st October 1894 ...	118	Work in progress.
8th May 1894 ...	31st August 1894 ...	.....	Do.
4th June 1894 ...	8th August 1894 ...	.....	Do.
18th April 1894 ...	15th Sept. 1894 ...	.....	Do.
21st June 1894 ...	.....	.....	A portion of work is in progress. Tenders are invited for other works.
8th Feb. 1894 ...	31st August 1894 ...	9,945 5 5	Work in progress.
21st Feb. 1893 ...	30th April 1893 ...	2,069 6 1	Filling in completed. Contract for constructing the Station let to Messrs. Gangaram Laksbman & Co.
12th Dec. 1893 ...	31st August 1894 ...	2,951 2 10	Work in progress.
15th Nov. 1893 ...	31st July 1894 ...	4,120 4 3	Do.
9th July 1894 ...	15th Sept. 1894 ...	.....	Do.
14th Jan. 1892 ...	.....	12,819 0 10	Work will be recommenced after the rains.
.....	.....	.....	Work to be commenced.
.....	.....	.....	As a common chawl for the Health Department and Market Biggaries is sanctioned to be erected at Bori Bunder this amount is to be utilized for the same.
.....	.....	1,313 14 8	Tender of Messrs. Framroz & Co. has recently been accepted. Work will be commenced after the existing chawls are pulled down.
.....	.....	10,913 0 0	Amount made over to G. I. P. Railway Company for the construction.

Name and Description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
	Rs.			
III.—ROADS, BUILDINGS, &c.—*(contd).*				
WORKS TO BE COMMENCED—*(contd).*				
101. Road improvement at Wari Bunder and the provision of burying ground for Mahomedans and Beni-Israels.	8,51,655	Loan work...	Corporation Reso. No. 504 of 12th April 1894.	1st March 1894 ...
102. New Office at Null Bazar for Engineering Department (S. and B.) B. and C. Wards.	13,000	Cur. rev. ...	Corporation Reso. No. 10772 of 18th Jan. 1894.	18th Jan. 1894 ...
103. Erection of a new Cemetery Office and Chawl at Haines Road.	13,433	Do. ...	Budget for 1894-95...	1st March 1894 ...
104. Paving the compound of the Bori Bunder stables from the Public street to the water tank.	13,500	Do. ...	Do. ...	Do. ...
105. Fire Brigade Station, Gamdevi	8,273	4½ Lakhs Loan ...	3rd Sept. 1891 ...	3rd Sept. 1891 ...
106. Do. do. Chinchpokli	7,209	Do. ...	Do.	Do. ...
107. Extension of Bhuleshwar Market	4,50,000	Loan ...	9th July 1888 ...	9th July 1888 ...
108. Health Department Bullocks Stables and quarters for sweepers.	1,50,000	35 Lakhs Loan ...	17th Apr. 1890 ...	25th Sept. 1890 ..
109. Road through Nowrojee Hill from Elphinstone Bridge to Dougri Street	3,32,023	Loan ...	26th March 1888 ...	26th March 1888 ...
110. Fencing Municipal ground at Dadar..	572	Cur. rev. ...	Budget for 1893-94.	1st March 1893 ...
111. Providing canvas screens to windows on south side of the Council Hall, New Municipal Building.	276	Contingencies for the new Municipal Office Building.	Commissioner's No. 19090 of 15th Dec. 1893.	.....

Date of commencement of the work.	Probable Date of completion of the work.	Certified Expenditure up to the end of June 1891.	REMARKS.
		Rs. a. p.	
.....	.....	63 6 4	Land being acquired.
.....	.....	.....	Tenders are to be invited.
.....	.....	.....	Tenders invited.
.....	.....	.....	Do. do.
.....	.....	146 14 0	Plans ready.
.....	.....	222 4 0	Tenders were invited, but favourable ones not having been received, they will be reinvited.
.....	.....	2,94,202 6 2	Land acquired. Work will be commenced after the rains.
.....	.....	44,437 1 5	Under consideration.
.....	.....	552 12 0	Negotiations for acquisition of land renewed.
.....	.....	.....	Under consideration.
.....	.....	.....	Tender accepted.

BOMBAY MUNICIPALITY.

PROGRESS REPORTS UP TO THE END OF SEPTEMBER

Under the Executive

Name and description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
	Rs.			
I.—WATER WORKS.				
WORKS COMPLETED.				
1. Provision of Fire buckets for Municipal markets.	6,203	Curr. rev. ...	23rd Jan. 1890 ... 6th Feb. 1893 ...	23rd Jan. 1890 6th Feb. 1893
2. Memorial structure at Tansa	2,628	Loan... ...	23rd Feb. 1893 ...	23rd Feb. 1893 .....
3. Renewing Boundary Marks	2,000	Do. ...	Do. ...	Do. ...
4. Further alterations and improvements at the Malabar Hill Reservoir.	75,000	Do. ...	6th Feb. 1893 ...	1st Mar. 1893 ...
5. Ghat Koper Strainers	12,000	Do. ...	23rd Feb. 1893 ...	23rd Feb. 1893 .....
WORKS IN PROGRESS.				
6. Repairs to Tulsi main embankment..	92,000 13,000	Curr. rev. ...	14th Jan. 1892..... 27th Jan. 1892....	14th Jan. 1892 1st Mar. 1892
7. Connections at Chinchpokli between Tansa and Vehar mains.	7,764	Loan...	16th June 1892	16th June 1892....
8. Covering storage basin at the Bhandarwada reservoir and constructing filter over it.	44,500 1,15,500	Do. ...	14th Jan. 1892..... 6th Feb. 1893.....	14th Jan. 1892 1st Mar. 1893
	1,60,000			
9. Extension of water mains in various places.	30,000	Do. ...	6th Feb. 1893 ...	1st Mar. 1893 ...
10. Flooring Bassein bridge and culverts..	13,000	Do. ...	23rd Feb. 1893 ...	23rd Feb. 1893 .....
11. Widening embankment at Bassein Creek.	10,000	Do. ...	Do. ...	Do. ...
12. Repairs to embankment between Gadimli and Kasheli.	30,000	Curr. rev. ...	6th Sept. 1894 ...	6th Sept. 1894 .....
13. Earth filling at Mori Road, Mahim ...	911	Do. ...	19th April 1894.....	19th April 1894.....
14. Screen wall at Chinchpokli Stores.....	700	Do. ...	10th May 1894	10th May 1894 .....
WORKS TO BE COMMENCED.				
15. Renewals of existing mains	1,00,000 1,00,000 25,000	Curr. rev. ... Do. ... Do. ...	27th Jan. 1892 ..... 30th Jan. 1893 ..... 8th Jan. 1894	1st Mar. 1892 ... 1st Mar. 1893 ... 1st Mar. 1894 ...
II.—SEWERAGE, SURFACE DRAINAGE AND HOUSE CONNECTIONS.				
WORKS COMPLETED.				
16. Queen's Road and Girgaum sewerage and house connection works.	11,14,629	Curr. rev. ...	28th July 1887 ...	28th July 1887 ...
17. New latrines and urinals.....	(a) 22,344-15-11 +12,000-0-0	Do.	16th Oct. 1889 ...	16th Oct. 1889 ...
	34,344-15-11			

(a) Renewed grant ... ... Rs. 22,344 15 11
Add—Budgetted grant for 1894-95 ... ... ,, 12,000 0 0
Total...Rs. 34,344 15 11

1894 OF NEW WORKS IN COURSE OF CONSTRUCTION.

Engineer, Bombay Municipality.

Date of commencement of the Work.	Probable date of completion of the Work.	Certified expenditure up to the end of September. 1894.	Remarks.
		Rs. a. p.	
May 1892.....	20th Aug. 1894	3,958 13 11	Work completed. Final accounts adjusted.
1st Jan. 1894.....	30th Sept. 1894	2,185 2 9	Work completed by Mr. Perbhat Mowji. Final accounts are being prepared.
19th Mar. 1894	Dec. 1894.....	73 14 0	Work completed do. do.
April 1894.....	.....	16,503 1 6	Repairs of Vaults completed by the Indian Patent Stone Co. Other works are postponed.
24th Dec. 1893.....	31st Aug. 1894	10,361 1 1	Work completed. Final accounts are being adjusted.
11th Mar. 1892	31st Mar. 1895	24,778 3 4	Work in progress by contract with Mr. Ardesir Framji.
July 1892.....	.....	7,402 1 4	Work in progress departmentally. Cannot be completed until the dispute with the G. I. P. Ry. Co. is settled. Sanction to the excess applied for.
July 1894.....	May 1896	3,628 4 2	Work in progress by Contract with Messrs. Littlewood and Pallonji.
30th Mar. 1894	May 1895	24,280 2 8	Laying of pipes in progress by Messrs. Littlewood, Pallonji & Co.
19th Mar. 1894	Dec. 1894	3,851 1 5	Work in progress by contract with Mr. Dhunjibhai Framji.
Do.	April 1895	3,044 11 7	Do. by Messrs. Littlewood and Pallonji.
Sept. 1894.....	Do. ...	3,658 10 6	Do. do. do.
9th May 1894	31st Mar. 1895	.....	Do. by Mr. Ardeshir Framji.
July 1894	31st Jan. 1895	.....	Work entrusted to petty works contractor.
Not commenced yet	.....	.....	Pipes received. One estimate submitted for sanction.
Nov. 1888..	.....	8,91,854 8 7	Work entrusted to Messrs. Bulkley & Co. and completed on 12th May 1891. Final accounts with them are adjusted. Some portion is being carried out departmentally.
.....	.....	1,8 9 14 10	The work of construction of latrines and urinals in Kennedy Sea Face Garden, Custom House Road, Paltan Road, Jairajbhai Street, Naran Dharu Street and Grant Road has been completed. The work of constructing latrines and urinals at Kolbhat Road, Agiary Street, Vusjid Station Road, and Clive Street is in progress.

Name and description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
	Rs.			
II.—SEWERAGE, SURFACE DRAINAGE AND HOUSE CONNECTIONS—*(contd.)*				
WORKS COMPLETED—*(contd.)*				
18. Experimental drainage works.....	10,000	Surplus Cash Balance	8th Sept. 1892 ...	8th Sept. 1892 ...
19. Erection of (9) nine flushing tanks at the heads of gullies selected by the Health Officer.	1,000	Do. ...	18th Nov. 1893 ...	18th Nov. 1893 ...
20. Construction of (49) forty-nine side entrances at Frere Road sewer.	5,608	Do. ...	9th May 1894 ...	9th May 1894 ...
21. Paving and V-draining the van siding behind the sheep and cattle slaughter houses at Bandora.	9,830	Curr. rev. ...	Budget for 1893-94.	1st Mar. 1893 ...
22. Connecting the houses, Nos. 5 to 9, Dammer Lane.	635	Loan	4th May 1894 ...	4th May 1894 ...
23. Laying 9" pipe sewer at Lalwadi.	2,579	Do. ...	7th Sept. 1893 ...	7th Sept. 1893 ...
24. Electric light installation at the new engine-house at Love Grove.	975	Do. ...	1st Feb. 1894 ...	1st Feb. 1894 ...
25. Improving and enlarging the existing storm-water drains in Chamar Lane.	7,813	Curr. rev. ...	Budget for 1894-95.	1st March 1894 ...
26. House connections without privy fittings in the first section of Drainage Scheme.	5,78,611-14-4	Loan... ...	8th Dec. 1881 ...	5th May 1885 ...
27. Automatic flushers at heads of gullies	5,570	Do.	Do. ...	Do. ...
28. Re-construction of latrines at Kharsetji Sukhaji Street and Arthur Crawford Markets.	2,439	Curr. rev.	Budget for 1894-95.	1st March 1894 ..
29. Paving the flooring of the old boiler-house at Love Grove.	1,245	Do. ...	Do. ...	Do. ...
30 Fencing round the Engineer's bungalow at Love Grove.	519	Do. ...	17th March 1894 ...	27th March 1894 ...
WORKS IN PROGRESS.				
31. Erecting metal vent-shafts in Abdul Rahiman Street.	2,077	Do. ...	Budget for 1893-94.	1st March 1893 ...
32. House connections in Agripada District	2,18,612	Loan... ...	8th October 1888 ...	1st July 1890 ...
33. Arrangements for flushing Parel and Bellasis Roads storm-water drain, from Babula Tank and Nagpada Tank.	4,295-10-1	Curr. rev. ...	23rd Jan. 1890 ...	1st Mar. 1890 ...
34 Construction of sewer flushing arrangements.	14,900	Loan... ...	23rd Jan. 1890 ...	1st Mar. 1890 ..
35. Construction of storm-water drain at Kalachauki Road.	10,534	Curr. rev. ...	Budget for 1894-95.	1st March 1894 ...

APPENDICES TO RECORD.

Date of commencement of the Work.	Probable date of completion of the Work.	Certified expenditure up to the end of Sept. 1894.	Remarks.
		Rs. a. p.	
30th Nov. 1892 ...	.....	7,792 10 2	Experiments by Mr. Wallace and Mr. David Gostling, completed. The work of filling in the catch-pits with concrete and paving the surface with blue stone ladis 4" thick in Shaik Meman Street is in progress.
22nd Dec. 1893 ...	28th June 1894 ...	846 3 8	Work completed and accounts are being adjusted.
29th Feb. 1891 ...	11th June 1894 ...	5,382 2 1	Work completed and accounts to be adjusted.
2nd April 1894 ..	15th August 1894 ...	6,996 15 4	Work completed. Accounts to be adjusted.
28th May 1894 ...	13th Sept 1894. ...	.....	Do. do.
1st Feb. 1894 ...	25th Sept. 1894 ..	586 6 2	Do. do.
March 1894 ...	18th Sept. 1894 ...	811 5 6	Do. do.
7th May 1894 ...	26th Sept. 1894 ...	3,002 13 8	Do. do.
8th Jan. 1887 ...	31st July 1888 ...	2,34,910 5 10	Khetwadi section of the work is done; other portions in progress. Work ordered to be proceeded with departmentally, but stopped, pending decision of Corporation as regards house-connections in general.
25th Jan. 1882 ...	31st July 1893 ...	.....	
12th June 1894 ...	26th Sept. 1894 ...	2,063 8 4	Work completed. Accounts to be adjusted.
20th June 1894 ...	18th Sept. 1894	1,113 13 8	Do. do.
20th March 1894 ..	13th Sept. 1894 ...	465 15 4	Do. do.
27th June 1894 ...	25th Oct. 1894 ...	.....	Work entrusted to petty work contractors, and in progress.
29th Oct. 1890 ...	15th Oct. 1892 ...	2,23,137 8 10	The work of constructing metal vent-shafts and connections of two houses in Agripada has been entrusted to the petty work contractors.
30th June 1894 ...	31st Dec. 1894 ...	3,294 8 10	The work of Nagpada Tank is entrusted to the petty work contractors. The work at Babula Tank is completed.
20th Sept. 1891 ...	31st Dec. 1894 ...	11,750 10 1	Work in progress.
7th May 1894 ...	20th Oct. 1894 ...	4,895 7 0	Do.

BOMBAY MUNICIPALITY.

Name and description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation	Date when Grant became available.
	Rs.			
II.—SEWERAGE, SURFACE DRAINAGE AND HOUSE CONNECTIONS—*(contd.)*				
WORKS IN PROGRESS—*(contd.)*				
36. Re-construction of the latrine in Dongri Street.	1,192	Cur. rev. ...	Budget for 1894-95.	1st March 1894 ...
37. Constructing a hopper at Parel village.	1,556	Do. ...	Do. ...	Do. ...
38. Filling in compound of the Small-pox Hospital at Arthur Road and constructing a slab drain.	6,631	Do. ...	Budget for 1893-94...	Do. ...
39. Construction of a hopper at the Sonapur Night-soil Depôt.	2,118	Do. ...	Budget for 1894-95...	Do. ...
WORKS TO BE COMMENCED.				
40. Water-closet accommodation at the Health Department stables, Wards C. and E.	1,400	Do. ...	Do. ...	Do. ...
41. Providing latrine and urinal to the Engineer's Office, Ward A.	600	Do. ...	Budget for 1893-94...	1st March 1893 ...
42. Constructing a 12-chamber latrine at Warli Middle Pakhadi.	3,010	Do. ...	Do. ...	Do. ...
43. Constructing a 12-chamber latrine at Warli Pakhadi.	2,240	Do. ...	Do. ...	Do. ...
44. Latrines for grave-diggers' chawl, Arthur Road.	200	Do. ...	Do. ...	1st March 1894 ...
45. Removal of the Drainage Chauki of Wards A. B. and C. from Charni Road to Mint Road.	1,507	Do. ...	Budget for 1894-95.	Do. ...
46. Providing catch-pits at the junctions of pipe drains to intercept rubbish from going into the main sewer.	15,000	Loan	Budget for 1893-94.	April 1894 ...
47. Pipe sewer in Kalachauki Road to join Arthur Road pipe sewer.	12,000	Do. ...	Do. ...	Do. ...
48. Proposed arrangement of pipe sewer manholes for discharging sewage from one level to another without splash.	5,471	Do. ...	Do. ...	Do. ...
49. Storm-water drain in Dadar Road from Police Chauki to Portuguese Church.	4,853	Do. ...	Do. ...	Do. ...
50. Special tidal flap for the mouth of Sonapur drain.	4,400	Do. ...	Do. ...	Do. ...

APPENDICES TO RECORD.

Date of commencement of the Work.	Probable date of completion of the Work.	Certified expenditure up to the end of Sept. 1894.	Remarks.
		Rs. a. p.	
23rd July 1894 ...	31st October 1894 ...	219 10 0	Work in progress.
17th July 1894 ...	17th Nov. 1894 ...	.....	Do.
24th Aug. 1894 ...	24th Feb. 1895 ...	209 15 0	Do.
17th July 1894 ...	17th Nov. 1894 ...	.....	Do.
.....	.....	.....	An estimate has been submitted by the Executive Engineer under his No. $\frac{1315}{26\text{-}10\text{-}94}$ for obtaining the Municipal Commissioner's sanction to entrust the work to the petty works contractors.
.....	.....	.....	The matter has been allowed by the Municipal Commissioner to stand over until the question of the erection of the New Office, in Ward A, and the sale of land at Mint Road is settled.
.....	.....	Cost of land. 1,804 3 3	The work is stopped, pending acquisition of land.
.....	.....	Cost of land. 750 10 7	Do. do. do.
.....	.....	.....	The Health Officer does not now consider this work necessary, *vide* his No. 17936 of 25-8-94.
.....	.....	.....	The work has been allowed to stand over in accordance with the Municipal Commissioner's orders pending the settlement of the question of sale of land on Mint Road.
.....	.....	.....	The work will be amalgamated with similar works recently sanctioned by the Corporation in their Resolution. No. $\frac{6524}{10\text{-}9\text{-}94}$, and tenders will be invited for a simultaneous execution of the works.
16th July 1894 ...	16th Jan. 1895 ...	200 5 0	Work entrusted to Messrs. Spencer and Co., and in progress.
.....	.....	.....	Plans and estimates submitted to the Commissioner.
.....	.....	.....	A contract form for the work has been drawn up and is being printed.
.....	.....	.....	Plans and estimates submitted to the Commissioner by the Executive Engineer under his No. $\frac{13103}{8\text{-}10\text{-}94}$.

Name and description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
III.—ROADS, BUILDINGS, &c.				
WORKS COMPLETED.				
51. Night-soil depôt near the junction of DeLisle and Parbhadevi Roads.	26,391	Curr. rev. ...	25th April 1888 ...	25th April 1888 ...
52. Re-constructing portion of Gibbs' Road.	46,200	Surplus Cash Balance.	10th Nov. 1892 ...	10th Nov. 1892 ...
53. Enclosing with teakwood windows and Porebunder work the verandah on the west side and the passage on the north side of the Revenue and Refund Office.	1,519	Savings on the Grant for furnishing Office, Contingencies, Building Loan.	Corp. Reso. No. 8967 of 7th Dec. 1893.	7th Dec. 1893 ...
54. Fire Brigade Station, Colaba	26,468	4½ Lakhs Loan.	3rd Sept. 1891 ...	3rd Sept. 1891 ...
55. Masonry tank with stone-coping pavement drains, &c., at Bandora Slaughter-house.	657	Curr. rev. ...	Budget for 1894-95.	1st March 1894 ...
56. Construction of Silchar incinerator on Government ground on the right hand side of the Sewree Road.	1,047	Savings on the Grant of earth for covering cutchra deposits, Health Department.	Corporation Resolution No. 12139 of 12th Feb. 1894.	12th Feb. 1894 ...
57. New iron drinking trough at the Kamathipura and Agripada milch cattle stables.	550	Curr. rev. ...	Budget for 1894-95.	1st March 1894 ...
58. Sheep and Goat Market at DeLisle Road.	16,000	Surplus Cash Balance.	7th Sept. 1893 ...	7th Sept. 1893 ...
59. A cage for two Kathiawar lions.	5,046	Do. ...	Do. ...	Do ...
60. Provision for Stall-holders in the Bhuleshwar market.	14,930	Curr. rev. ...	Corporation Resolution No. 12147, of 12th Feb. 1894.	12th Feb. 1894 ...
61. Providing canvas screens to windows on South side of the Council Hall new Municipal Office Building.	276	Contingencies for the new Municipal office Building.	Commissioner's No. 19090 of 15th Dec. 1893	.....
62. Fire Brigade Station at DeLisle Road—including the cost of making a road... ... ... Rs. 14,276 Cost of land ... ... „ 7,247 Cost of filling in ... ... „ 6,503	28,026	4½ Lakhs Loan.	3rd Sept. 1891 ...	3rd Sept. 1891 ...
63. Extension of the Mutton markets, &c., Crawford Market.	49,942	Loan ...	26th Mar. 1888 ...	26th March 1888 ...
64. Fire Brigade Station Bhuleshwar ... ... Rs. 12,001 Ground at the junction of Kalbadevi and Bhuleshwar „ 40,814	52,815	Do. ...	Do. ...	Do. ...

APPENDICES TO RECORD.

Date of commencement of the Work.	Probable date of completion of the Work.	Certified expenditure up to the end of Sept. 1894.	Remarks.
		Rs. a. p.	
13th May 1892 ...	30th Sept. 1894 ...	19,489 0 3	Work completed and accounts adjusted. Some extra works proposed by the Health Officer have been entrusted to the petty work contractors.
Do.	Do.	38,362 4 0	Road slopes and catch-pit water channel completed. The work of diverting pipes is under consideration.
8th March 1894 ...	22nd April 1894 ...	1,418 1 4	Work completed. Accounts being closed.
30th Oct. 1893 ...	30th June 1894 ...	19,180 12 5	Do. do. do.
8th May 1894 ...	31st Augt 1894 ...	24 0 0	Do. do. do.
19th March 1894 ...	30th June 1894 ...	350 11 9	Do. do. do.
4th June 1894 ...	6th August 1894 ...	.....	Do. do. do.
12th Dec. 1893 ...	31st August 1894 ...	8,475 0 2	Do. do. do.
15th Nov. 1893 ...	31st July 1894 ...	1,659 7 7	Do. do. do.
19th July 1894 ...	1st Sept. 1894 ...	1,810 0 0	Do. do. do.
19th April 1894 ...	16th May 1894 ...	193 7 0	Work completed, Accounts adjusted.
7th Jan. 1893 ...	31st Dec. 1893 ...	4,662 2 6	Completed. Accounts not closed, as certain extra works are in progress.
31st Oct. 1892 ...	15th Jan. 1894 ...	34,144 2 9	Work completed. Accounts being closed.
11th April 1893 ...	8th Dec. 1893 ...	51,330 11 6	Do. Accounts adjusted.

Name and description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
III.—ROADS, BUILDINGS, &c.—(*contd*).	Rs.			
WORKS IN PROGRESS.				
65. Roads and streets in Agripada and elsewhere.	22,50,000 1,28,288	Loan ... Do. ...	13th May 1889 ... 11th Jan 1893 ... 26th June 1893 ..	13th May 1889 11th Jan. 1893 26th June 1893
66. Making of streets which have become public under Municipal Act.	5,000 5,000	Curr. rev ...	Budget for 1893-94. Budget for 1894-95.	1st March 1893 1st March 1894
67. Health Department Stables in F and G Wards.	78,744	Loan ...	Corporation Reso. No. 12246, of 16th Feb. 1893.	25th Sept. 1893 ...
68. Fire Brigade Station, Babula Tank .....Rs. 36,569 Filling in of Tank ..... „ 21,716	58,285	4½ Lakhs Loan.	3rd Sept. 1891 ...	3rd Sept. 1891 ...
69. Quarters for the Chief Inspector, Water Works .....Rs. 29,612 Filling in Babula Tank (*a*) „ 21,026	50,638	Water Works Department.	Do. ...	Do. ...
70. Sankli Tank Fire Bde. Stn. Rs. 1,07,905 Filling in ..... „ 67,197 Acquisition of land ..... „ 33,104	2,08,206	4½ Lakhs Loan.	Do. ...	Do. ...
71. Erection of a Cemetery Office and Chaul at Haines Road.	13,433	Curr. rev. ...	Budget for 1894-95.	1st March 1894 ...
72. An enclosure and shed for a wild Ass in Victoria Gardens.	1,463	Balance of the Garden Fund.	Corporation Resolution No. 6307, of 6th Sept. 1894.	6th Sept. 1894 ...
73. Providing additional rain water pipe in the new Mutton market.	370	Savings in the grant of construction of new Mutton market at the Arthur Crawford Market.	Commissioner's No. 12230, of 28th Aug. 1894.	28th Aug. 1894 ...
74. Paving with Indian Patent stone the floor of the verandah of the Bhuleshwar Fire Brigade Station.	208	Savings in the grant of Bhuleshwar Fire Brigade Station.	Commissioner's No. 11996, of 27th Aug. 1894.	27th Aug. 1894 ...
75. New Market at Colaba.....	50,300 50,000	Loan ...	26th Mar. 1888 ...	26th Mar. 1888 ...
76. Laying tarred metal outside washing stones at Dhobiwada.	2,813	Curr. rev ...	Budget for 1894-95.	1st March 1894 ...
77. Railing and paling for Municipal ground at Foras Road.	1,610	Do.	Corporation Reso. No 305, of 5th April 1894.	5th April 1894 ...
78. Extra furniture and alterations to furniture for the Municipal offices.	3,736 12 0	Savings on the Grant for furniture & fitting for new Municipal building.	Corporation Reso. No. 1639, of 10th May 1894.	10th May 1894 ...
79. Health Department Biggaries' Chawl at Bori Bunder.	66,000	Loan ...	Corporation Reso. No. 12246 of 16th Feb. 1893.	.....

(*a*) Out of this sum, Rs. 4,278 is to be

APPENDICES TO RECORD.

Date of commencement of the Work.	Probable date of completion of the Work.	Certified expenditure up to the end of Sept. 1894.	Remarks.
		Rs. a. p.	
¶ 27th Feb. 1893 ...	27th Feb. 1895 ...		
* 14th Nov. 1893 ...	31st Dec. 1894 ...		
† 17th Nov. 1893 ...	24th Aug. 1894 ...	23,10,087 5 6	Five roads are in progress, viz., Club Road,† Morland Road,§ Souter Road,‡ Gilder Street,* Dadar to Matunga Road.¶
‡ 7th Dec. 1893 ...	18th Aug. 1894 ...		
§ 31st Oct. 1893 ...	24th June 1894 ...		
1st March 1893 ...	.....	1,341 4 6	In progress. The work will be taken in hand during the year from time to time.
18th Oct. 1893 ...	18th Oct. 1894 ...	43,149 14 5	Work in progress—nearly completed.
8th May 1893 ...	3rd Sept. 1894 ...	19,701 7 5	Work of filling in completed. Accounts being closed. Revised plans and estimates for the Fire Brigade Station have been approved by the Commissioner.
Do ...	Do. ...	18,706 4 3	Work of filling in completed.
4th Nov. 1892 ...	10th Nov. 1893 ...	93,582 14 10	Filling in completed. The construction work will be undertaken when the filling in is well consolidated by rain. Revised plans for the Fire Brigade Station are being prepared.
.....	.....	42 14 5	Work in progress.
17th Sept. 1894 ...	16th Dec. 1894 ...	.....	Work in progress.
10th Sept. 1894 ...	9th Dec. 1894 ...	.....	Do.
.....	.....	.....	Do.
15th March 1894 ...	14th March 1895 ...	57,321 10 7	Do.
16th April 1894 ...	31st October 1894 ...	779 9	Do.
18th April 1894 ...	15th Sept. 1894 ...	.....	Do.
21st June 1894 ...	.....	654 11 1	Tender accepted for a portion of the work. The remaining work is being done departmentally.
22nd Sept. 1894 ...	21st Sept. 1895 ...	1,893 14 8	Work in progress.

charged to Street Improvement Grant.

Name and description of Work or Grant.	Amount of Grant.	Fund to which Grant is debitable.	Date when Grant was sanctioned by the Corporation.	Date when Grant became available.
III.—ROADS, BUILDINGS, &c.—*(contd.)*	Rs.			
WORKS IN PROGRESS—*(contd.)*				
80. Fire Brigade Station at Dadur Rs. 8,208 Filling in portion of Nuigum Tank Rs. 2,194.	10,402	4½ lakhs Loan.	3rd Sept. 1891 ...	3rd Sept. 1891 ...
81. Paving with Indian Patent stone 1,500 s. ft. of compound of the Health Department stables, Camatipoora.	618	Do.	Corporation Reso. No. 301, of 5th April 1894.	5th April 1894 ...
82. Retaining wall extension, Walkeshwar Road.	9,150 5,000 19,353	Curr. rev... Surplus Cash Balance.	16th January 1889. Corp. Reso. No. 1849 of 14th May 1894.	1fth Jan. 1889 ... 14th May 1894 ...
WORKS TO BE COMMENCED.				
83. Providing for the cost of repairing and re-erecting the gates of the Elphinstone Circle Garden.	2,990	Surplus Cash Balance.	Corporation Reso. No. 11916, of 5th Feb. 1894.	5th Feb. 1894 ...
84. Purchase of land for Chawls for the Biggaris who clean the Arthur Crawford Market, and building the chawl.	22,700	Loan ...	25th April 1888 ...	25th April 1888 ...
85. Footbridge over the G. I. P. Railway at Byculla, on the road from Parel Road to the junction of DeLisle Road and Haines Road.	10,943	Curr. rev. ...	Budget for 1893-94.	1st Mar. 1893 ...
86. Road improvement at Wari Bunder and the provision of burying ground for Mahomedans and Beni-Israels.	8,51,652	Loan work...	Corporation Reso. No. 504, of 12th April 1894.	1st March 1894 ...
87. New Office at Null Bazar for Engineering Department (S. and B.) B. and C. Wards.	13,000	Curr. rev. ...	Corporation Reso. No. 10772, of 18th Jan. 1894.	18th Jan. 1894 ...
88. Paving the compound of the Bori Bunder stables from the Public street to the water tank.	13,500	Do. ...	Budget for 1894-95...	1st March 1894 ...
89. Fire Brigade Station, Gamdevi.....	8,273	4½ lakhs Loan ...	3rd Sept. 1891 ...	3rd Sept. 1891 ...
90. Do. do. Chinchpokli	7,209	Do. ...	Do.	Do. ...
91. Extension of Bhuleshwar Market	4,50,000	Loan ...	9th July 1888 ...	9th July 1888 ...
92. Health Department Bullock Stable and quarters for sweepers.	1,50,000	35 lakhs Loan ...	17th April 1890 ...	25th Sept. 1890 ...
Road through Nowrojee Hill from Elphinstone Bridge to Dongri Street	3,32,023	Loan ...	26th March 1888 ...	26th March 1888 ...
94. Fencing Municipal ground at Dadar...	572	Curr. rev. ...	Budget for 1893-94.	1st March 1893 ...
WORKS UNDER THE SPECIAL DRAINAGE ENGINEER.				
WORKS IN PROGRESS.				
1. Sewerage of Colaba (on Shone system)	7,09,608 79,219	Loan ...	9th March 1893 ... 9th August 1894 ...	9th March 1893 ... 9th August 1894 ...
	7,88,827			
2. Sewerage of Umarkhadi..... Branch sewer from Kavasji Patel Tank Road to Parel Road.	3,08,327 41,632	Loan ...	16th October 1893 ...	16th October 1893 ...
	3,49,959			
WORKS TO BE COMMENCED.				
3. Sewerage of a portion of Parel District.	81,620	Savings in the Grant for various drainage	2nd August 1894 ...	2nd August 1894 ...

Date of commencement of the Work.	Probable date of completion of the Work.	Certified expenditure up to the end of Sept. 1894.	Remarks.
		Rs. a. p.	
10th Sept. 1894 ...	9th March 1895 ...	2,091 14 1	Filling in completed. Contract for constructing the Station let to Messrs. Gangaram Lakshman and Co., order has been given to commence the work.
9th July 1894 ...	15th Sept. 1894 ...	.....	Work in progress.
14th Jan. 1892 ...	.....	13,451 8 8	Work will be commenced shortly.
.....	.....	.....	Work to be commenced.
.....	.....	.....	As a common chawl for the Health Department and Market Biggaries is sanctioned to be erected at Bori Bunder, this amount is to te utilized for the same.
.....	.....	10,943 0 0	Amount made over to G. I. P. Railway Company for the construction.
.....	? ...	148 6 4	Land being acquired.
.....	.....	22 8 0	Tenders invited.
.....	.....	42 0 0	Tender of Messrs. Ruttonji Bezonji and Co. has been accepted. Work not commenced as the site is not cleared.
.....	.....	146 14 0	Plans ready. Estimates are being prepared.
.....	.....	222 4 0	Tenders have been re-invited.
.....	.....	2,94,225 9 10	Land acquired. Work will be commenced after the existing market is removed. Tenders for the work are being prepared.
.....	.....	44,437 1 5	Under consideration.
.....	.....	552 12 0	Negotiations for acquisition of land renewed.
.....	.....	.....	Under consideration.
11th September 1893	1st May 1895 ...	6,19,542 0 0	This work is being done by three separate Contractors. (a) Pipe sewers, &c., by Messrs. Bulkley & Co; (b) machinery by Messrs. Hughes and Lancaster; (c) foundations for machinery and engine house, &c., by Messrs. Mistri, Bhedwar, Vachagandi & Co.
16th October 1893..	8th August 1895 ...	59,686 0 0	This work is being done by contract. The Contractors are Messrs. Bulkley & Co.
Not commenced yet.	.....	.....	Tender of Messrs. Mistri, Bhedwar, Vachaghandi and Co. accepted by the Standing Committee on 14th November 1894, and the contract is under preparation.

APPENDIX E.

Experimental House Connections.

BOMBAY, *6th April* 1894.

"That the work of constructing house connections in the city be stayed till the Corporation have enquired into the sanitary effect of those already constructed. That a Committee composed of the following gentlemen be appointed, for the purpose of enquiring into the sanitary effect of the House Connections already constructed and of reporting thereon, and of suggesting such remedies as may appear desirable or necessary. The President, Abdulla M. Dharamsi, Esq.; Ardasir D. Mody, Esq.; Brig. Surg. Lt.-Col. S. O'B. Banks; Bhalchandra K. Bhatawadekar, Esq.; Thomas Blaney, Esq.; Cowasjee Hormasjee, Esq.; Cowasjee Pestonjee, Esq.; D. A. D'Monte, Esq.; Fardunji N. Bisni, Esq.; Framji D. Divecha, Esq.; W. C. Hughes, Esq.; K. N. Kabraji, Esq.; Brig-Surg. Lt. Col. G.A. Maconochie; Meherjibhai R. Setna, Esq.; Muncherji C. Marzban, Esq.; Nanabhai N. Katrak, Esq.; Pherozeshah M. Mehta, Esq.; A. G. Viegas, Esq.; and R. M. Sayani, Esq.; The Municipal Commissioner. "That the Committee be empowered to call for papers or to take evidence.

"; to form a quorum, and the President to be Chairman."

AT the Meeting of the Committee of the Corporation appointed on 30th June 1892, as per margin, held this day, there were present :—

Thomas Blaney, Esq.; Ardasir D. Mody, Esq.; Bhalchandra K. Bhatawadekar, Esq.; Cowasji Pestonji, Esq.; D. A. D'Monte, Esq.; Fardunji N. Bisni, Esq.; Meherjibhai R. Setna, Esq.; Nanabhai N. Katrak, Esq.; Accacio G. Viegas, Esq.; Surgeon Lieut.-Col. T. S. Weir, Health Officer; J. W. Smith, Esq., Drainage Engineer on Special Duty; and the Secretary.

Messrs. D. Gostling and J. Wallace were also present.

On the motion of Cowasji Pestonji, Esq., seconded by D. A. D'Monte, Esq., Thomas Blaney, Esq., was voted to the chair.

The minutes of the meeting held on the 30th March were signed.

The Chairman: Here we are with no response from our colleagues to the request that they should join us to-day in giving sanction or refusing sanction to the proposal of Dr. Katrak, and now it is for us to determine whether we should go on in the usual way. We have done all we could, and if they ever begin to attack us for our action, this memorandum will be on the records. If it is your pleasure, I would advise that the Secretary take a note of the members who have turned up in response to our invitation. We can now proceed to vote on Dr. Katrak's motion.

Mr. Adrasir D. Mody: I would point out that to-day is a Hindoo holiday.

The Secretary: The holiday was over at 12 o'clock this morning.

The Chairman: If you think there is anything in the fact pointed out by Dr. Mody, there will be no harm in postponing this matter.

(Mr. Bhalchandra K. Bhatawadekar arrived at the meeting at this point.)

The Chairman : Dr. Bhalchandra has arrived, but Mr. Javerilal has not yet come ; it is for you to say whether you will put off Dr. Katrak's motion until another time.

Mr. Nanabhai N. Katrak : There are certain questions I would like to ask which will take up some time ; after that we can discuss whether we shall vote or not.

The Chairman : Dr. Katrak's motion is before you.

It was agreed that it be placed on record that the notice, as per margin, was sent to all the members of the Committee, but that at this meeting only the following members were present :—

At the Meeting of the Committee of the Corporation appointed on 30th June 1892, on the subject of House Connections, *held this day*, it was

Resolved that the following be discussed on *Friday next*.

"The Committee having considered, as fully as they could, the subject of open against closed drains to houses with side and back gullies, the subject is now ripe for voting upon. It is, therefore, considerdered desirable that before a vote is taken on such an important matter a full meeting of Committee should be present. Unless this full meeting is secured, the minority who usually attend the meetings, feel that it is undesirable to decide the question.

JAVERILAL U. YAJNIK, Chairman of the H. C. Committee.

Thomas Blaney, Esq. ; Ardasir D. Mody, Esq. ; Bhalchandra K. Bhatawadekar, Esq. ; Cowasjee Pestonjee, Esq. ; D. A. D'Monte, Esq. ; Fardunji N. Bisni, Esq. ; Meherjibhoy R. Setna, Esq. ; Nanabhai N. Katrak, Esq. ; and A. G. Viegas, Esq.

Mr. Gostling : Before you go any further, gentlemen, I wish to know something with reference to my last proposal as to whether I should be allowed to make the alterations in the drain at Vithalwady according to the new plans. The Chairman : At whose expense ? Mr. Gostling : At the expense of the Municipality. The Chairman : We had better have Mr. Gostling's proposal read to us. [The recommendations of Mr. Gostling with regards to his scheme were here read.] Mr. Bhalchandra K. Bhatawadekar : Have you heard the discussion on Dr. Katrak's proposal ? Mr. Gostling : Yes. Mr. Bhalchandra K. Bhatawadekar : What is the advantage of your system over his proposal to have open gutters ? Mr. Gostling : I fully agree in the advantages of the surface gutter system. Any cutchra or sand which is mixed with the sewage should remain on the surface gutter and the drain underneath should be restricted to pure water only and no silt. What I propose will accomplish that separation of cutchra. Mr. Nanabhai N. Katrak : Some silt will go in all the same. Mr. Gostling : You must have some small percentage. Mr. Ardasir D. Mody : I wish to refer you to page 114 of the Proceedings in which you will see Mr. Gostling undertook to prepare a full-sized section of the teak cover. Has that been done ? Mr. Gostling : No, not yet. Even if I had prepared it, you have no guarantee that it would work. The plans are complete. Mr. Nanabhai N. Katrak : It has been taken for granted that the surface of the gully should be soiled, Mr. Gostling's scheme allows that. After that is done the question is what shall you

do with the water. Mr. Gostling wants to take it into the gully sewer through small holes, whereas my recommendation is, that it should be carried straight to the street sewer and done away with. The holes Mr. Gostling provides for are a fraction of an inch ; we know that holes 3 inches in diameter get choked. Taking it for granted that these small holes would remain open, silt would get in because it remains suspended in the water. We have no guarantee that by any process silt can be shut out, and it is that we object to. If the holes block up, the water has to go off in another way and we immediately have a condition of things Mr. Gostling did not mean to exist. This scheme, though excellent in idea, does not give us that which we want, namely, to get rid of the sewage as soon as possible and not to keep it in the vicinity of human beings with the idea of separating the solids from the liquids. The Chairman : This is an experiment, says Dr. Katrak, that is so palpably liable to failure that it is not worth while spending further money on it. Mr. Bhalchandra K. Bhatawadekar : What has Mr. Gostling to say ? Mr. Gostling : I don't think that what Dr. Katrak has described will be the effect. What I propose is that the surface gutter shall have a slight slope—nearly flat—so that the silt shall have an opportunity of settling and not percolate into the drain. A section of the surface gutter will not be more than 16 ft. long and the covers 20 ft. apart, so that the sewage will not have a long length to run before it falls into the sewer. A small quantity of silt may get in, but then you have a running siphon at the end of the gully which will prevent it going into the sewer. Mr. Nanabhai N. Katrak : How if the holes get blocked ? Mr. Gostling : A small piece of stick will easily clean them, and then you have a man going into the gully every day. Mr. Nanabhai Katrak : How many holes have you in 100 feet ? Mr. Gostling : 40 ; some of the holes may close up, but others are sure to remain open and be quite enough to carry off the water. The Chairman : The covers are to be made of teak. Mr. Gostling: Yes, teak, or cast-iron. Mr. Ardasir D. Mody : I propose that we have a model before we vote on the question. The Chairman : Do the Committee think they should wait for the model ? Mr. Nanabhai N. Katrak : I don't see any object in doing so. Mr. Meherjibhai R. Setna : I should like to know what the experiment will cost. The Chairman : The first question is, have we any money ? What is the balance, Mr. Smith ? Mr. Smith said he estimated the unexpended balance at about Rs. 500. Mr. Bhalchandra K. Bhatawadekar : I would like to ask the Health Officer whether these modifications to Mr. Gostling's scheme are likely to improve the existing state of things ? The Health Officer : I would rather not hazard an opinion. I think any further experiments deserve serious consideration. Mr. Bhalchandra K. Bhatawadekar : Do you think it would improve the present state of things ? The Health Officer : I have my

doubts, but it is well worth trying. Mr. Nanabhai N. Katrak: Why? The Health Officer: Mr. Gostling is a practical man, and I think there is something in what he suggests, or he would not try it. The Chairman: That is the principle we have gone upon throughout these experiments. The only objection is that some experiments have been modified twice. What will the experiment cost? Mr. Gostling: Rs. 300 to Rs. 400; probably less. Mr. Bhalchandra K. Bhatawadekar: I think it advisable to grant the amount. Mr. Nanabhai N. Katrak: Supposing the scheme succeeds, as well as Mr. Gostling could wish, in a hygienic point, would the adoption of his scheme be advisable? It is taken for granted that the silt should be on the surface of the gully and the water flowing into the gutter, would the silt remaining on the surface be a sanitary advantage? If not, what is the use of trying the scheme? The Chairman: I would like to express Dr. Katrak's idea in different words. Supposing you vote this money, and you find on examination there is all the silt on the top and the liquid passes into the drain, the silt will be a nuisance. Mr. Gostling: All that will remain on top is cutchra. Mr. Nanabhai N. Katrak: Is the Committee going to vote that the scheme should be carried out in any part of the city? If cutchra remains on the surface of the gully so will sludge. Mr. Gostling: Cutchra and silt will remain, sludge will go into the water. Mr. Nanabhai N. Katrak: We are at a standstill, no member has proposed the grant. Mr. Bhalchandra K. Bhatawadekar: What time will the experiment take? Mr. Gostling: Within one month. Mr. Nanabhai N. Katrak: I beg to propose we go on with the business. The Chairman: Unless some gentleman proposes the grant, we must proceed.

Proposed by Meherjibhai R. Setna, Esq.: "That the Commissioner be requested to expend a sum not exceeding Rs. 400 out of the balance in hand to provide for the carrying out of Mr. Gostling's further experiments in Vithalwadi house gully, Mr. Gostling undertaking to complete the work within a month on hearing from the Commissioner."

The motion was seconded and *carried* by a majority.

Mr. Nanabhai N. Katrak: You will remember that we stopped at a certain stage in the discussion of the proposition I laid before you. The report of the Water Engineer was received some time ago, and he therein mentioned that about three and a half million gallons of water would be required to flush all the gullies by the annular siphon. Another important point was the answer to my query as to what amount of water was used at present for flushing sewers, and the Water Engineer gave us to understand that at present about two million gallons were used for that purpose. He (the Water Engineer) believed that quantity was too large, and that about half a million

gallons would suffice, and that we have enough water to flush the gullies with. Taking that as the basis of my recommendation, I will proceed.

The Chairman : You say that because the Water Engineer has come to that opinion, he has given a sanitary opinion. On that question you must have the opinion of the Health Officer. Mr. Tomlinson considers half a million gallons per day sufficient to flush all the gullies. He is speaking of some theoretical city, but we must consider the city as it is. We must have an expression of opinion from the Health Officer. I would not go to the Corporation and support Mr. Tomlinson, but at the same time I would not venture an opinion on the matter until I have heard what the Health Officer has got to say on the matter. Mr. Tomlinson has no experience about flushing, whilst Dr. Weir has had a long experience, and has always written about the great need at flushing and the terrible destruction to health which occurs from the want of it. It is in the gullies between the houses that the diseases of Bombay start, and we must hear from Dr. Weir what quantity of water should be used for properly cleaning these gullies ; then we shall be prepared to go to the Corporation with our recommendations and our report, which must be a complete report, dealing with the city as it is on that day and not at some future date. Therefore, you see in a matter of this kind how terribly at sea a Water Engineer can be. He gives you a purely arithmetical sum, whilst what must be considered is the double question of sewerage and health.

Mr. Bhalchandra K. Bhatwadekar : It would certainly be advisable to refer the report for the opinion of the Health Officer before voting on the proposition before us. I would suggest one thing ; according to Dr. Katrak's proposition, the gullies will be well made and well paved, and in reporting, Dr. Weir should take that into consideration.

The Health Officer : Under such circumstances, the quantity of water will be less than would be required under the present conditions of the gullies.

The Chairman : Mr. Tomlinson has some ideal hygienic town in his mind when he made his calculation. We cannot ignore the fact that we have spent eighty lakhs of rupees on the sewerage of Bombay, and we have the whole of the first section—Khetwady—completed besides other places, and still foul gullies between the houses exist. We visited Dhobie Talao, where the drains are all complete, and yet we saw gullies in which the use of one thousand gallons per day would not be sufficient. It is no use to talk about theories ; we must treat the City as we find it, and our report must deal with Bombay as it is. We have seen how far short the different systems of drainage can be, and how they can fail, and we now propose to remove the filth that the drains do

not, by flushing. Let Dr. Weir make his own report from his own experience. He has upwards of twenty years' experience, and he has seen all the gullies in existence since the days of Adam. Dr. Mody knows that in Khetwady all the drains are down, yet it is the side drains that work the system.

On the motion of Bhalchandra K. Bhatawadekar, Esq., seconded by Cowasji Pestonji, Esq., it was

Resolved: "That letters Nos. 7955 and 8934 of 15th February, and 28th March last, from the Water Engineer, be referred to the Commissioner, with the request that the Health Officer will report on the question therein referred to, from a sanitary point of view."

Mr. Nanabhai N. Katrak: The next information we have is that which we saw in the interior of the pipes. You will remember that we examined the deposit of silt in connection with all the experiments as well as the deposit in the pipes of the existing system of the house drains. You will remember that in one gully on the white model, which is the one at present followed, so far as house gullies are concerned, we found no silt in the drain pipe examined, but we know for a fact that the gully pipes in that system do frequently choke. With regard to the system in which an attempt has been made to intercept the solids by means of catchpits, we found some silt in Mr. Smith's No. 1 scheme, and some also in his No. 2. We know we saw inches deep of solids in Mr. Gostling's drain, and we know that in all the running syphons examined we found silt, although attempts were made to intercept the solids through catchpits. My object is to show that do what we will, the silt will get into the pipes, and as medical men we know that the existence of silt is bad, for it decomposes and gives off gas. If that is the case, would it not be better to have the open gully? Silt will settle in them, I admit, but we have to consider the influence of the air. The gases given off would be diffused in the air, and the silt is brought under the influence of the sun, and again it is right under the view of every one and more care will be taken to have it swept away, and thus remove a great source of danger. The difference in the open and closed systems is as the difference between the blunt truth and a polite lie. If we have under view an objectionable object we take measures to remove it, whereas if it is kept from the sight as in the closed system, we have a polite lie. It is agreeable to our senses, but all the same it is dangerous. Of course, there are catchpits and all that kind of thing, but, broadly speaking, the best course is to try and remove the solids in the quickest and best way, not from the point of view of sightliness, but from a sanitary point of view. The sooner we get it away the better for health.

The Chairman: This is an additional argument Dr. Katrak advances in support of his motion.

Mr. Nanabhai N. Katrak : There is another point which escaped me. We have to consider also the temperature of the pipes under the ground. We have two records showing what the temperature is at certain parts of the year; one from Mr. Latham, and the other from Dr. Weir. That from Mr. Latham shows that the temperature is higher in the pipes than outside. Higher temperature means quicker decomposition, and a greater pressure of sewer gas in the sewers. This increased pressure must relieve itself, and ventilating pipes are provided. If these do not suffice the gas forces open the water seals. At certain parts of the day the air in rooms is hotter than the atmosphere outside, and the result is that the heated air escapes through windows at a higher level and exerts a sort of suction power over the hole of the *nahani*, which in its turn draws the air from the downtake pipe which is supplied by the traps. In the open gully system the air will come from the gully, and whatever gas may get into the room will be well diluted.

Mr. Ardasir D. Mody : As the seconder of the motion, I have only to add that the experience of medical men in Bombay is that a great deal of the prevalent fever is due to poisoning by sewer gas. By Dr. Katrak's recommendation it is quite possible we may do away with strong doses of sewer gas and also reduce the amount of silt in the main sewers, because the greater portion of the silt will be removed by *bigaris*.

The Chairman : Everyone recognises that the silt in the sewers has been the ruin of the Bombay system of drainage.

Mr. Adarsir D. Mody : I recommend that we visit the Love Grove Pumping Station.

The Chairman pointed out that such a visit would be outside their instructions, the Committee had to deal with house connections.

Mr. Nanabhai N. Katrak put in a table given in Mr. Baldwin Latham's report, showing the depth of silt in the sewers on the 24th January 1890. That, he said, would enable them to compare the depth of silt in the sewers at the present time with the new engines working with what it was when the old engines were pumping.

Proposed by Nanabhai N. Katrak, Esq., seconded by Ardasir D. Mody, Esq.—

" That the Commissioner be requested to ascertain (1) the depth of silt ; (2) the depth of sewage above silt ; and (3) the total depth of silt and sewage in the sewers in the following localities between 6 o'clock and 9 o'clock in the morning, and 12 to 3

in the afternoon, and that he favours the Committee with any remarks that he may have to make on the subject."

Locality.	Depth of Silt.	Depth of sewage above Silt.	Total Depth of silt and sewage.	Remarks.
	Ft. In.	Ft. In.	Ft. In.	
Queen's Road	.....	.....	.....	
Charni Road	.....	.....	.....	
Khetwadi Back Road	.....	.....	.....	
Frere Road (Fort end)	.....	.....	.....	
Kamathipura centre streets (old brick sewer) opposite 12th Kamathipura Street...	.....	.....	.....	
Kamathipura centre streets (old brick sewer opposite) 10th Kamathipura Street...	.....	.....	.....	
Kursetji Sukhlaji Street, at 7th Kamathipura Street ...	.....	.....	.....	
Bapty Road next manhole west of Kursetji Street (storm-water drains)	.....	.....	.....	
Bapty Road (ovoid sewer) at Kamathipura Centre Road	.....	.....	.....	
Bapty Road (ovoid sewer) at Trimbak Parashram Street.	.....	.....	.....	
Bapty Road (ovoid sewer) at Kamathipura Bazaar Street.	.....	.....	.....	
Bapty Road (storm water drain) at Kamathipura Bazaar Road	.....	.....	.....	
Bapty Road (old main drain) at Stable Street	.....	.....	.....	
Kursetji Suklaji Street (south end near latrines)	.....	.....	.....	
Grant Road (Manhole between Suklaji Street and Falkland Road)	.....	.....	.....	
New main ovoid sewer at junction of Falkland Road and 10th Khetwadi Road...	.....	.....	.....	
Next manhole on Falkland Road.....	.....	.....	.....	
Manhole on Falkland Road Near Bapty Mills	.....	.....	.....	
Falkland Road at junction of Bapty Road	.....	.....	.....	

Carried.

Mr. Nanabhai N. Katrak : I would like to ask Mr. Smith what has been done with regard to the suggestion to clean the inside of downtake pipes, and I should also like to see one of the pipes. We might have one pipe cleaned and one uncleaned. It has come to my knowledge that there are glass lined pipes, the cost of which is only 10 per cent. more than ordinary iron pipes. I should like to hear from Mr. Smith what he thinks of the pipes and whether he recommends them.

The Chairman : The question of pipes will have to be considered carefully, and the information will be valuable.

The Committee then adjourned until the 15th June in order to give the Health Officer time to prepare his report.

APPENDICES.

BOMBAY, 15*th June* 1894.

AT the meeting of the Committee held this day, there were present :—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman ; Ardasir D. Mody, Esq. ; Bhalchandra K. Bhatawadekar, Esq. ; Thomas Blaney, Esq., C.I.E. ; Cowasji Pestonji, Esq. ; D. A. D'Monte, Esq., M.D. ; Fardunji N. Bisni, Esq. ; Nanabhai N. Katrak, Esq. ; Accacio G. Viegas, Esq. ;

H. A. Acworth, Esq., I.C.S., Commissioner ; the Health Officer ; the Acting Drainage Engineer ; and the Secretary.

D. Gostling, Esq., was also present.

The minutes of the meeting held on the 6th April last were signed.

The following papers, which were circulated to the Committee since the last meeting, were *recorded*.

No. 5510 OF 1894-95.

BOMBAY, 14*th May* 1894.

TO THE MUNICIPAL COMMISSIONER.

SIR,—Referring to your No. 26613 of 8th March 1894, I have the honour to forward herewith a statement of observations taken in the Queen's Road Sewer junction of Thakurdwar Road, during the month of April last.—I have, &c.,

J. LEASK, for Health Officer.

No. 3912 OF 17*th May* 1894.

Copy forwarded to the Municipal Secretary with reference to his No. 13201 of 7th March 1894.

H. A. ACWORTH,

Municipal Commissioner for the City of Bombay.

BOMBAY MUNICIPALITY.

OBSERVATIONS of temperature taken in the Queen's Road Sewer junction of Thakurdwar Road, during the month of April 1894:—

Date.	Temperature taken at 9 A.M.			Temperature taken at 5 P.M.		
	Drain.	Water in drain.		Drain.	Water in drain.	
		Ft.	In.		Ft.	In.
1894.						
April 3....	94°	6	3	93.	4	6
„ 4....	92°	5	9	92°	1	3
„ 5....	94°	5	9	92°	2	10
„ 6....	95°	6	3	97°	1	9
„ 7....	96°	6	3	.....	...	...
„ 8....		Sunday				
„ 9....	95°	6	9	98°	1	...
„ 10....	94°	6	5	96°	1	...
„ 11....	94°	6	9	97°	2	1
„ 12....	95°	7	...	96°	2	...
„ 13....	97°	7	...	98°	2	8
„ 14....	98°	6	6	97°	2	7
„ 15....		Sunday				
„ 16....	96°	6	1	94°	1	3
„ 17....	94°	6	4	95°	1	3
„ 18....	96°	7	...	95°	3	...
„ 19....	95°	6	8	96°	1	3
„ 20....	96°	6	2	97°	1	4
„ 21....	96°	5	10	95°	1	3
„ 22....		Sunday				
„ 23....	97°	6	...	98°	1	4
„ 24....	96°	6	4	95°	...	10
„ 25....	95°	6	3	94°	1	3
„ 26....	98°	6	...	96°	1	1
„ 27....	96°	5	10	97°	1	3
„ 28....	95°	5	4	96°	1	1
„ 29....		Sunday.				
„ 30....	96°	5	4	96°	1	...
May 1....	95°	4	10	96°	1	...
„ 2....	95°	6	5	96°	1	...

APPENDICES.

No. 629 OF 1894-95.

BOMBAY, *7th April* 1894.

To THE MUNICIPAL COMMISSIONER.

SIR,—With reference to your No. 90 of 2nd instant, I have the honour to report that the phenomena are the same depending on the access of air and light and on temperature. In the case of a pipe the conditions render decomposition more dangerous than on an open surface, and the danger is reduced or increased in the ratio of the velocity with which the sewage currents are carried. A pipe may be a retort if there is little flow and it may be a safe channel if there is a rapid and full current. The safety of a pipe as a channel depends primarily on the velocity of the currents carried through it.—I have, &c.,

T. S. WEIR, Health Officer.

No. 731 OF 1894-95.

BOMBAY, *9th April* 1894.

Copy forwarded to the Municipal Secretary for information with reference to Resolution No. 2 of the House Connections Committee referred to in his No. 14261, dated 31st ultimo.

H. A. ACWORTH, Commissioner.

No. $\frac{D}{1427}$ OF 1894-95.

BOMBAY MUNICIPALITY,

22nd May 1894.

To THE MUNICIPAL COMMISSIONER.

SIR,—Referring to your No. $\frac{1296}{17\text{-}4\text{-}94}$ and the House Connections Committee's Resolution No. $\frac{513}{12\text{-}4\text{-}94}$, I have the honour to state that I have communicated with Mr. Gostling regarding the sanctioned expenditure of Rs. 400, and the work is now proceeding.

I beg to forward a statement showing the depth of silt and of silt and sewage at the places indicated by the House Connections Committee.

The depths of silt vary considerably, almost from day to day. For instance, in the Queen's Road sewer on the 3rd May a depth of 2′-1″ was got, while on the 14th it showed only 1′-5″, showing that the silt is more or less always on the move, there is more silt in Queen's Road sewer in proportion to its size than in any sewer in the City.

The reason of this is that its inlet into the main sewer at Khetwadi 10th Lane is not a free one, and when the sewage is higher in the main sewer than in the Queen's Road sewer there is a back-water which encourages a settlement of the silt.

However, the Queen's Road sewer is flushed with sea-water whenever there is a high tide, and this has the effect of completely cleansing the sewer, so that it is by no means in a foul condition.—I have, &c.,

C. C. JAMES, A.M.I.C.E.,
Drainage Engineer.

No. 4620 OF 25-5-94.

Copy forwarded to the Municipal Secretary for information with reference to Resolutions Nos. 1 and 3 of the House Connections Committee referred to in his No. 513, dated 12th ultimo.

H. A. ACWORTH,
Municipal Commissioner
for the City of Bombay.

STATEMENT showing the observations of depth of sewage above silt, and total depth of silt and sewage in the Queen's Road sewer.

Observations taken on Monday, the 14th May 1894.

No.	LOCALITY.	BETWEEN 6 AND 9 A.M.						BETWEEN 12 NOON AND 3 P.M.					
		Depth of silt.		Depth of sewage above silt.		Total depth of silt and sewage.		Depth of silt.		Depth of sewage above silt.		Total depth of silt and sewage.	
1	Sonapur	0′	9″	7′	0″	7′	9″	0′	8″	3′	0″	3′	8″
2	Allbless Bag	1′	5″	5′	0″	6′	5″	1′	1½″	2′	7½″	3′	9″
3	Junction of Girgam Road and Charni Road	1′	5″	5′	4″	6′	9″	1′	2″	3′	4″	4′	6″
4	Junction of Khetwadi Main Road and Charni Road...	0′	6″	6′	0″	6′	6″	0′	6″	4′	2″	4′	8″
5	Junction of 10th Khetwadi Lane and Khetwadi Back Road	1′	3″	3′	2″	4′	5″	1′	2″	3′	6″	4′	8″

Observations taken on Thursday, the 3rd May 1894.

No.	LOCALITY.	BETWEEN 6 AND 9 A.M.						BETWEEN 12 NOON AND 3 P.M.					
		Depth of silt.		Depth of sewage above silt.		Total depth of silt and sewage.		Depth of silt.		Depth of sewage above silt.		Total depth of silt and sewage.	
1	Frere Road	1′	5½″	0′	11″	2′	4½″	1′	5½″	0′	11½″	2′	5″
2	Kamatipura Centre Street (old brick sewer) opposite 12th Kamatipura Street	0′	1″	2′	1″	2′	2″	0′	1½″	1′	10½″	2′	0″
3	Kamatipura Centre Street (old brick sewer) opposite 10th Kamatipura Street	0′	1″	1′	11″	2′	0″	0′	½″	1′	10½″	1′	11″
4	Kharsetji Suklaji Street at 7th Kamatipura Street ...	0′	5″	0′	8″	1′	1″	0′	5″	0′	7″	1′	0″
5	Bapty Road next manhole West of Kharsetji Street (storm water drain)	0′	3″	1′	2″	1′	5″	0′	3″	0′	9″	1′	0″
6	Bapty Road (ovoid Sewer) at Kamatipura Centre Road	0′	8½″	2′	5″	3′	1½″	0′	10″	1′	10½″	2′	8½″
7	Bapty Road (ovoid Sewer) at Trimbak Parsharam Street	1′	8½″	1′	9½″	3′	6″	1′	6″	1′	2″	2′	8″
8	Bapty Road (ovoid Sewer) at Kamatipura Bazar Street	0′	5″	2′	9″	3′	2″	0′	7½″	2′	5½″	3′	1″
9	Bapty Road (storm water drain) at Kamatipura Bazar Road	1′	2″	2′	0″	3′	2″	1′	3″	1′	6″	2′	9″
10	Bapty Road (old main drain) at Stable Street ...	0′	9½″	0′	9½″	1′	7″	0′	9″	0′	7″	1′	4″
11	Khursetji Suklaji Street (South end) near Latrines...	1′	2″	1′	1″	2′	3″	1′	1″	0′	4″	1′	5″
12	Grant Road (manhole between Suklaji Street and Falkland Road)	1′	4″	1′	6″	2′	10″	1′	3″	0′	5½″	1′	8½″
13	New main ovoid sewer at Junction of Falkland Road and 10th Khetwadi Road	2′	7″	3′	2″	5′	9″	2′	4″	1′	10″	4′	2″
14	Next manhole on Falkland Road	2′	9½″	3′	1½″	5′	11″	2′	6″	1′	7″	4′	1″
15	Manhole on Falkland Road near Bapty Road	2′	8″	3′	8″	6′	4″	2′	9″	1′	7½″	4′	4½″
16	Falkland Road at Junction of Bapty Road	2′	10″	3′	10½″	6′	8½″	2′	9″	2′	0″	4′	9″

(Sd.) C. C. JAMES, A.M.I.C.E.,
Drainage Engineer.

APPENDICES.

No. 4216 OF 1894-95.

BOMBAY, 1*st June* 1894.

TO THE MUNICIPAL COMMISSIONER.

SIR,—With reference to your No. $\frac{89}{2-4-94}$, I have the honour to report that house gullies could be flushed by four different methods :

(*a*) By means of hose attached direct to the main.

(*b*) By means of flushing engines.

(*c*) By means of pipes connected with the water main and carried up to the higher ends of the gullies and fitted with a stop cock and nozzle.

(*d*) By means of tanks placed at the heads of gullies, with arrangements for discharging their contents at will.

2. The probable initial cost of item (*a*) cannot be accurately estimated, as it would depend on the relative positions of the mains and the gullies. This method is not one which can be confidently recommended, as the pressure in the main is not always reliable. Besides that, there would be much inconvenience to public traffic when the hose is stretched out from the main to the gully.

3. Item (*b*). Flushing by means of engines would be very effective, where there are large mains and a good pressure. Now that we have obtained a flushing engine, it will be possible to flush a large number of gullies by this means at a very small expense.

4. Item (*c*). The initial cost of laying flushing pipes in 10 gullies, each 100 ft. long, would be about Rs. 2,155, as per estimate attached. This method is economical. The work can be easily carried out, and not only the gullies, but the walls of the houses abutting on the gullies could be well flushed by means of hose.

5. Item (*d*). Flushing by means of tanks would be the best, wherever such an arrangement could be carried out. The initial cost of flushing 10 gullies, 100 ft. in length, by this method would be about Rs. 1,950, as detailed in the accompanying estimate.

6. The recurring expense of flushing the drains would, it is presumed, be paid by the Health Officer from his budget grants.

7. Flushing by the steam engine will probably require a permanent staff, for which an application has, I believe, been made by the Health Officer.—I have, &c.,

M. C. MURZBAN, Executive Engineer.

No. 5384 OF 4-6-94.

Copy forwarded to the Municipal Secretary for information with reference to the Resolution No. 1 of the House Connections Committee, referred to in his No. 14261, dated 31st March last.

H. A. ACWORTH, Commissioner.

ESTIMATE framed by M. C. Murzban, Esq., C.I.E., Executive Engineer, Municipality, of the probable expense that will be incurred in providing flushing arrangements for ten house gullies, each 100ft. long, by means of tanks placed at the heads of gullies.

Quantity.	Items.	Rate.	Per	Amount.
		Rs. a. p.		Rs.dec.
244 c. ft.	General excavation for service from water main to plinth of house	1 8 0	100 c. ft.	3·66
8 „	Common lime concrete tank posts	16 0 0	„	1·28
25 „	Rubble masonry in common mortar	20 0 0	„	5·00
17 s. ft.	Removing and resetting pavement	12 0 0	100 s. ft.	2·04
4 Nos.	Blue stone laddies under posts rough dressed...	30 0 0	100	1·20
7·09 c. ft.	Teakwood posts	3 4 0	c. ft.	23·04
264 lbs.= 2·36 cwts.	Wrought iron tank	17 0 0	cwt.	40·12
1 No.	Copper nozzle 5″ wide	3 0 0	each.	3·00
160 r. ft.	Galvanized W. I. pipe ¾″	0 4 3	one r. ft.	42·50
1 No.	¾″ brass ferrule	2 4 0	each	2·25
1 No.	¾″ brass stop cock	3 0 0	„	3·00
1 No.	Lead fitting, upper and lower	1 0 0	„	1·00
2 „	W. I. straps	1 0 0	„	2·00
1 No.	Copper adjustages	1 0 0	„	1·00
1·88 cwt.	C. I. work	8 0 0	cwt.	15·04
1 No.	¾″ brass ball valve	3 4 0	each.	3·25
244 c. ft.	Removal of surplus materials	1 12 0	100 c. ft.	4·27
18 sq. yds.	Road repair	0 12 0	Sq. yd.	13·50
1 No.	Arrangements for lever and handle	10 0 0	Lot.	10·00
	Total Rs.... ...	.....	.....	177·15
	Add 10 per cent. contingencies... ...	.....	.....	17·72
	Total for each gully... ...	.....	.....	194·87
	Say, Rs. 195 for each gully : ∴ for 10 gullies=10×195=Rs.... ...	.....	.....	Rs. 1,950

M. C. MURZBAN,
Executive Engineer.

ESTIMATE framed by M. C. Murzban, Esq., C.I.E., Executive Engineer, Municipality, of the probable expense that will be incurred in putting up flushing arrangements for to house gullies each 100 feet long by means of pipes Rs. 2,155.

Quantity.	Items.	Rate.	Per	Amount.	Total.
		Rs. a. p.			
210 C. ft.	General excavation in earth sand, &c	1 8 0	100 c. ft.	3·15	
4 „	Breaking old Masonry and making good the same	17 8 0	„	0·17	
12 S. ft.	Removing and resetting blue stone pavements with a bed of common lime concrete 6" thick	20 0 0	100 s. ft.	2·40	
165 R. ft.	1¼" Galvanized W. I, service pipe with all fittings in gully	0 9 0	r. ft.	92·81	
1 No.	1¼" Stop cock with sockets	10 8 0	Each.	10·50	
1 „	1¼" Stop cock with threads on one end and socket on the other end ...	25 0 0	„	25 00	
1 „	1¼" Brass ferrule	6 0 0	„	6·00	
17Sq.yds.	Road repair	0 12 0	sq. yds.	12·75	
210 C. ft.	Removing excavated earth	1 12 0	100 c. ft.	3·67	
22 No.	Teakwood blocks with iron hooks for fastening the service pipe fixed complete in masonry work	0 6 0	Each.	8·25	
				165·23	
	Add 10 per cent. contingencies	.....	.....	16·32	
	Add Rs. 10 for meter hire	.....	.....	181·75 10·00	
	Total for one gully ...	.....	.....	192	
	No. of gullies ...	.....	.....	10	
	Total for ten gullies ...	.....	.....	1920	
	Carried over Rupees ...	.....	.....	.....	1920

Quantity.	Items.	Rate.	Per	Amount.	Total.
		Rs. a. p.			
	Brought over Rupees ...	... ..	.....	.....	1920
2 R. ft.	1½" W. I. Galvanized pipe	0 9 0	r. ft.	1·13	
3 No.	Brass Couplings (female) fixed complete	15 0 0	Each.	45·00	
1 „	6" Copper Nozzle fixed complete including making joint, &c.	5 0 0	„	5·00	
105 R. ft.	1½" Leather hose with copper rivets in three pieces without brass couplings each	0 15 0	r. ft.	98·43	
1 No.	1½" Copper branch pipes (such as used by fire brigade)	15 0 0	Each.	15·00	
4 „	Pieces of 1½" Galvanized W. I. pipe with threads turned on either end of different sizes varying from 6" to 24"	3 0 0	„	12·00	
3 Pair	Brass Couplings, male and female	12 0 0	Pair.	36·00	
1 No.	W. I. Key	1 0 0	Each.	1·00	
				213·56	
	Add 10 per cent. contingencies	.....	.....	21·36	
				234·92	
	Say Rs...	.....	.....	.....	235
	Grand Total Rupees...	.....	.....	.....	2155

M. C. MURZBAN,

Executive Engineer, Bombay Municipality.

APPENDICES.

Considered the following :—

No. 9381 of 1894-95.

BOMBAY MUNICIPALITY, 12*th June* 1894.

To THE MUNICIPAL COMMISSIONER.

SIR,—In continuation of this office No. 5510, dated the 14th ultimo, I have the honour to forward herewith a statement of observations taken in the Falkland Road sewer during the month of May 1894.—I have, &c.,

J. LEASK, for Health Officer.

No. 6157 of 13-6-94.

Copy forwarded to the Municipal Secretary in continuation of this office No. 3912 of the 17th ultimo.

H. A. ACWORTH,

Municipal Commissioner for the City of Bombay.

BOMBAY MUNICIPALITY.

OBSERVATIONS of temperature taken in the Falkand Road Sewer during the month of May 1894.

DATE.	Temperature taken at 9 A. M. Drain.	Height of Water in Drain.		Temperature taken at 5 P. M. Drain.	Height of Water in Drain.		REMARKS.
		Ft.	In.		Ft.	In.	
1894							
May 3...	89°	5	10	90°	1	10	Deposit in drain 1 ft. 10 inches. Size of sewer 4 ft. 9 inches.
„ 4...	89°	3	6	92°	1	9	
„ 5...	90°	3	6	91°	1	7	
„ 6...		Sunday					
„ 7...	90°	3	1	92°	1	6	
„ 8...	89°	3	6	92°	1	8	
„ 9...	90°	3	6	93°	1	10	
„ 10...	91°	4	...	90°	2	1	
„ 11...	90°	3	10	90°	2	6	
„ 12...	91°	5	...	92°	3	...	
„ 13...		Sunday					
„ 14...	91	4	6	93°	3	4	
„ 15...	93°	4	6	92°	3	2	
„ 16...	90°	4	3	92°	2	10	
„ 17...	91°	5	...	95°	3	10	Night-soil in drain.
„ 18...	93°	5	6	94°	2	6	Do.
„ 19...	93°	3	6	93°	2	...	
„ 20...		Sunday					
„ 21...	92°	3	2	92°	2	4	
„ 22...	92°	3	4	93°	1	11	
„ 23...	92°	3	2	94°	1	10	Night-soil in drain.
„ 24...	91°	2	8	91°	1	8	
„ 25...	91°	3	...	93°	1	7½	
„ 26...	92°	3	...	92°	1	8	
„ 27...		Sunday					
„ 28...	92°	4	4	92°	1	8	
„ 29...	92°	3	3	93	1	10	
„ 30...	92°	3	3	92°	1	10	
„ 31...	92°	5	1	91°	1	9	
June 1...	94°	3	0	96°	1	10	
„ 2...	92°	3	2	94°	2	3	

Mr. Blaney pointed out that the Committee did not require a report on the 22 ft. sewer in Falkland Road. It had been down for 90 years and the Health Department had been cleaning it regularly. He also pointed out that no epidemic disease had occurred along the line of the sewer since it was first put down. It was not considered to be a scientific sewer, because it ran badly and silted up, and the Health Department had had to remove tons of solids from it; but so far as sanitation was concerned, there was nothing to complain of.

The Commissioner: With regard to the Queen's Road and Ketwady sewers, the Health Officer tells me that the sewage in the morning runs so high that his men have not been able to take observations.

Mr. Blaney: Is that because it is choked?

The Health Officer: No.

Mr. Katrak: We have the figures about Queen's Road sewer.

The Health Officer: Unless less water is discharged into this sewer, it is not possible to take observations in the morning.

Mr. Blaney: You think the sewer too small?

The Health Officer: I don't offer an opinion on that.

Mr. Blaney: We were told it would do for two hundred years. We have not yet reached that limit.

The following letter from the Municipal Commissioner was read:—

Considered the following:—

No. 36322 of 1893-94.

9th March 1894.

To the INSPECTOR, D. WARD.

Memo: For attention and report.

T. S. WEIR, Health Officer.

Sir,—I beg to report that I had visited this place and saw the writer. This complaint refers to privy and house sullage of property No. 103 to 105, Tardeo Road, as well as the waste water from bathrooms of the complainant's house discharging on to the vacant land belonging to Nanoosha Gagoosha, situated to the north of the writer's bungalow. I request the favour of this complaint being transferred to the Drainage Department for the necessary action.

J. M. DESMIER, Inspector, D Ward.

No. 37807 of 1893-94.

28th March 1894.

To the DRAINAGE ENGINEER.

Memo: Forwarded to the Drainage Engineer.

T. S. WEIR, Health Officer.

BOMBAY MUNICIPALITY.

No. D. 153 OF 1894-95.

BOMBAY, 6*th April* 1894.

TO THE MUNICIPAL COMMISSIONER.

SIR,—Referring to your No. $\frac{26561}{8\text{-}3\text{-}94}$, received with the Health Officer's No. $\frac{37807}{28\text{-}3\text{-}94}$, I have the honor to state that the houses complained of, Nos. 103 to 105, Tardeo Road, are in the 1st Drainage Section. There are many houses such as these and equally bad, which the Health Officer continually brings to my notice, and which being in the 1st Drainage Section I am unable to take any action until the House Connections Committee have submitted their report.

I would also mention that there are about two thousand houses in the drained districts of the City also awaiting the same decision.—I have, &c.,

C. C. JAMES, Assoc. M.I.C.E.,
Drainage Engineer.

No. 791 OF 1894-95.

BOMBAY, 10*th April* 1894.

TO THE MUNICIPAL SECRETARY.

SIR,—I have the honor to forward for the consideration of the Corporation a short correspondence which has passed between various departments of the Municipality, and to suggest that the House Connections Committee be asked to expedite their report. Besides the 1st Drainage Section, in which house connection work is entirely stopped, there are the sewered localities of Parel Village and Curry Road in which house connections are urgently needed. I have not up to the present felt free to exercise the powers assigned to the Commissioner by Sections 231 and 232 of the Act, but by indefinitely delaying to do so I incur a responsibility which I would gladly avoid.—I have, &c.,

H. A. ACWORTH, Municipal Commissioner
for the City of Bombay.

No. 101.

BOMBAY, 6*th March* 1894.

TO THE MUNICIPAL COMMISSIONER, BOMBAY.

SIR,—I have the honor to request you to be good enough to instruct to stop filthy waste water from accumulating from the surrounding bungalows at the back of premises occupied by me and by my family. I regret to say that the place is perfectly swamped with putrid water and affluvia arising from it all the year round, which is no doubt dangerous to the health.

Trusting you will be good enough to take immediate steps to prevent this nuisance.—I have, &c.,

B. NOWROJI DOSSABHAI, Dubash.

APPENDICES.

No. 26660 OF 1893-94.

From THE MUNICIPAL COMMISSIONER
FOR THE CITY OF BOMBAY,
To MR. B. NOWROJI DOSSABHOY, Dubash.

BOMBAY, *8th March*.

MEMO: Mr. B. Nowroji Dossabhoy, Dubash, is informed in reply to his letter, dated 6th March 1894, that inquiries will be made in the matter.

By Order,
T. GLOVER,
Acting Assistant to Commissioner.

No. 26661 OF 1893-94.

Memo: Forwarded to the Health Officer for favor of report.

By order,
T. GLOVER,
8th March 1894. Acting Assistant to Commissioner.

Mr. Blaney: The question is whether we can sit every day?

Mr. Nanabhai N. Katrak: The question is, are we slow?

The Chairman: Are you expeditious.

Mr. Katrak: We have been sitting every week, and I don't think we have left this hall under two hours or one hour-and-a-half. So far as the magnitude of the work is concerned, we have not been slow.

The Chairman: The Corporation wishes to know the outcome.

Mr. Ardasir D. Mody: The Corporation should be informed that we have had to wait for the reports from the different heads of departments.

The Chairman: They are all in now.

Mr. Katrak: The questions occurred during the course of our deliberations.

Mr. Blaney: It is not necessary for us to say anything. Let us go on with our work, that is the best answer. If they are prepared to take us to the High Court and serve us with a mandamus, I am prepared to get into the witness-box and answer the whole of the members.

Mr. Bhalchandra K. Bhatawadekar: I move "That the correspondence be recorded, together with the return as to Falkland Road Sewer."

The motion was seconded and *carried*.

Mr. Katrak : Before proceeding to business, I should like to ask Mr. James something with regard to the memo. you have been kind enough to circulate showing the depth of silt at various places. We find, speaking broadly, that the depth of silt is lower, but there are certain places which show a great increase of depth of silt, for example in Kamathipura Centre Road.

Mr. Blaney : That is an 8 ft. sewer. It does not belong to this system.

Mr. James : That is not the one. It is a new sewer.

Mr. Nanabhai N. Katrak : The same as taken by Mr. Latham ?

Mr. James : Yes.

Mr. Katrak : Then there is a considerable diminution of depth all round.

Mr. James : The reason for the increase in places is that the silt is all working towards the Pumping Station owing to the increased pumping power.

Mr. Katrak : Does this increase mean anything ?

Mr. James : No ; it simply means that it is working out of the Queen's road sewer.

Mr. Blaney : The fact remains that the sewers are overburdened with silt.

Mr. Katrak : Is it more or less ?

(The motion of Mr. Katrak (page 105) regarding drainage of houses with side gullies was re-read and considered)

Mr. Viegas : As Mr. Gostling's experiment is not yet completed, is it not better that before voting on the motion that we should know the result of that experiment ? I understand this Committee has sanctioned a certain sum of money for Mr. Gostling to carry out certain experiments which may have a practical bearing on the motion before us, and I fail to see why after sanctioning that sum, we should not wait to see that experiment carried out.

Mr. Blaney : Having voted money, we must wait for a result. I think Mr. Gostling might be asked to expedite his report.

Mr. Ardasir D. Mody : Whether the result of Mr. Gostling's experiment goes for or against this motion, it will not affect the voting. If it is in favour it will strengthen the proposition. We have to vote upon the main question of open channels, after that we decide whether it will be Mr. Gostling's, Mr. Hewson's, or that of some other gentleman.

Dr. Blaney : Having asked for a report from Mr. Gostling, which has direct bearing on the question, we ought to wait for it.

Mr. James : The work was finished about a week ago.

Mr. Viegas . Then we can go and see it.

Mr. Blaney :—This is a battle sanitary engineers have been fighting for hundreds of years. We cannot be too cautious or prove too much. It means lakhs of rupees and more, the destruction of life. It is not an A, B, C, question ; I personally have been considering sanitation for thirty years, and I say, no matter what the Corporation or the Commissioner may think it is to our credit and not discredit that we are endeavouring to prove our facts and get together useful evidence. Unless you are imbued with such a spirit and endeavour to prove every fact, you have no right to come here and say, "let us drain the city this way or that way." You are bound to be able to defend every resolution you pass with facts. I speak as a reasonable man, you must produce a fact for every proposal that you make. The want of such a system has been the cause of the break down of our drainage system. We have never proved facts. We have read books and said page so-and-so says so-and-so, put it down. If every fact had been proved, and the Departments of the Municipality had been inter-locked and inter-related, there would have been no failure of any part of our sewerage system. We are here as practical men and we must go before the Corporation with a report in which every facts has been verified. Therefore, I don't care what the time is we spend over our task. It is our bounden duty to spend the time and to verify, verify, verify.

The Chairman : Evidently new text books will have to be written with reference to the peculiar conditions of sanitation in this country.

Mr. Blaney : It is so unreasonable to ask Mr. Gostling to make experiments and then not wait for his report.

Mr. Nanabhai Katrak : Before we separate I should like to ask that the Municipal Commissioner be requested to supply certain information we shall require in connection with our discussions afterwards. In the mass of evidence before us I do not find any official view with regard to the drainage of such houses as are included in the headings "B, C, and D," houses with back gullies, side gullies, &c., &c We have one or two schemes in connection with them, but we have no material before us, giving the view the executive have taken about the matter. They may have certain ideas they have arrived at, and we ought to have some official view on the matter.

Mr. Blaney : I was going to say that before voting for these profound alterations, for our own protection and our reputations, we should make a reference to the Municipal Commissioner that he should consult the sanitary authorities as to their objections, if any, to the course to be adopted. If that is not done, what will happen ? You will vote on a subject, then the Commissioner will get up and say, "I don't know anything about it ; this is all

nonsense." Give the municipal people the fullest opportunity : don't let us cut the tails off our own coat. That will be my proposition before every important vote.

Mr. Katrak : Dr. Blaney has anticipated some of my remarks. We have no official information, no material by which we can know what the ideas of the executive are. We have the opinion of Mr Smith that under circumstances he has no objection to open channels, and we know the Health Officer has been recommending them for many years. So far we have their opinion, but it would be an important step if we had such information on every head.

The Chairman : I understand Dr. Blaney's proposal is to consider all these propositions, pass them and submit them for the opinion of the executive.

Mr. Blaney : Let us prepare our note and send the proposition up for official criticism.

The Chairman : I think that would be a right procedure.

Mr. Gostling, who attended towards the end of the meeting, stated that he had slight alterations to make in his experiment, but had been prevented doing so during the heavy rains. He had, however, arranged for their immediate completion and would have the work complete in a day or two.

The Chairman : When will you be in a position to furnish a report ?

Mr. Gostling : In a week or a fortnight.

The Committee then adjourned until after Mr. Gostling's report is received.

BOMBAY, *6th July* 1894.

AT the meeting of the Committee held this day, there were present :—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman ; Ardasir D. Mody, Esq., Bhalchandra K. Bhatawadekar, Esq., Thomas Blaney, Esq., D. A. D'Monte, Esq., Fardunji N. Bisni, Esq., Kaikhosro N. Bahadurji, Esq., Moreshwar Gopal Deshmukh, Esq., Nanabhai N. Katrak, Esq.,

The Health Officer, the Drainage Engineer, the Drainage Engineer on special duty, and the Secretary.

D. Gostling, Esq., was also present.

The minutes of the meeting held on the 15th ultimo were signed.

Read the following :—

No. 6516 OF 1894-95.

BOMBAY, *18th June* 1894.

TO THE MUNICIPAL SECRETARY,
FOR THE PRESIDENT, MUNICIPAL CORPORATION.

SIR,—I have the honour to point out that in my No. 791 of 10th April last, I addressed the Corporation with a view to a request being made by that body to the House Connections Committee, which has now been sitting for nearly two years, that they should expedite their report. I forward, with my letter, a short correspondence which furnished an example of the complaints I am constantly receiving from districts in which house-connection work is stopped, pending the report of the Committee. My letter, with its accompaniments, was sent by the Corporation to the Committee "with a view to expedite their report," and at their next meeting on 15th instant the Committee "recorded" both the resolution and the correspondence. I had pointed out in my letter to the Corporation of 10th April how inconvenient it was that I should be "indefinitely delayed" in exercising the power of ordering house-connections to be made where they are required, and how serious the responsibility was which I thereby incurred. The function of prescribing and ordering where house-connections are to be made, and of what pattern they shall be, vests exclusively in the Commissioner (*vide* Sections 231 and 232 of the Act), and however anxious he may be to consult the wishes of the Corporation or of a Committee of the Corporation, he cannot divest himself of the responsibility which necessarily appertains to the statutory authority.

In this case the responsibility may be shortly stated as being that of allowing people to be poisoned, and large sums which have been spent on pipe-sewers, which are ready to receive sewage, to lie idle, pending the result of inquiries which have extended over two years already and which are apparently endless. Under these circumstances it strikes me that for the House Connections Committee to record my letter without vouchsafing any answer to or notice of it whatever, was not only an unjustifiable discourtesy towards myself, but leaves me absolutely no alternative but to proceed to carry out the duties which the law assigns to me.

These are, as it seems to me, to proceed to order house-connection in all districts where pipe-sewers exist outside the 1st Drainage Section. Within the latter, anxious as the people are to get house-connections, they will object to providing them at their own expense as the Corporation has agreed to do so.—I have, &c.,

H. A. ACWORTH, Commissioner.

BOMBAY MUNICIPALITY.

No. 3733 OF 1894-95.

5th July 1894.

To the Hon'ble Mr. Javerilal U. Yajnik, Chairman, House Connections Committee.

I have the honour to inform you that at the ordinary monthly meeting of the Corporation held this day, the following Resolution was passed :—

That the following be *recorded*:—Resolution of the House Connections Committee, dated 15th June 1894, recording the Corporation's Resolution, No. 1862, dated 14th May last, with reference to the Committee's expediting their report.

No. 3720.

That a copy of letter to the President, No. 6516, dated 18th July 1894, from the Commissioner, be forwarded to the House Connections Committee for remark.

That the names of Dr. Moreshwar Gopal Deshmukh and Dr. Kaikhosru Nasarwanji Bahadurji be added to the House Connections Committee.—I have, &c.,

H. W. BARROW, Municipal Secretary.

H. W. BARROW, Esq.,

Secretary, House Connections Committee.

BOMBAY, 29*th June* 1894.

DEAR SIR,—I herewith enclose you my final report upon the above.

I have prepared it for reading to the Committee at their meeting to-day. But as I have received from you no intimation of a meeting to be held to-day, I send it to you for presentation at their next meeting, of which I shall be obliged by your sending me an intimation.

If a meeting is now being held to-day, kindly send me a word by bearer to come at once.—Yours truly,

D. GOSTLING.

BOMBAY, 29*th June* 1894.

MR. GOSTLING'S REPORT UPON HIS SECOND DESIGN OF HOUSE CONNECTIONS.

1. I have carried out my improved designs according to the plans and description, which I have already submitted to the Committee, with slight modifications.

2. The gutter fourteen inches wide, with an average depth of three inches, is built in the centre of the gully, immediately over the gully sewer underneath. Wherever there is a bend in the sewer I have fixed a teak cover four feet long in the gutter over the sewer. There are eight grooves, eight inches long, round each cover. The floor of the gutter between the covers is made level or nearly so. The dirty water before entering the gutter deposits its sand, earth and katchra on the floor of the gutter, and the effluent water freed from undissolvable matter flows through the grooves down into the sewer in a fairly pure state. I first made the grooves three-eighths of an inch wide, but I subsequently reduced their width to three-sixteenths of an inch with advantage. The grooves occasionally choke up when there is an excess of katchra in the gutter. This occurred at the commencement of the monsoon, when after the grooves were choked the water flowed down the gutter freely, leaving the pavement on each side of the gutter quite clean for walking on.

3. Mr. James has kindly given one of his gully-trap men a trowel to use for the purpose of cleaning the grooves from time to time whenever they get choked up, and to scrape out the hard earth and mud which slowly deposits and dries on the bottom of the gutter and is too hard for the halalkhores to sweep away with their brooms. In due time the halalkhores will be taught to use the trowel themselves, but we have to move slowly in this country. It takes time to teach people new duties.

4. The small amount of sand and earth which now falls through the grooves is easily taken out by hand or by a small scraper. Some vegetable matter still comes in along the drain I made under the inner passage. This causes some smell in the passage, but the gully sewer outside the passage is quite free from smell, even though it is used daily by four privies on the water carriage system at the head of the gully. The drain in the inner passage should be altered to correspond with what I have now done in the gully, when this passage also would be free from smell.

5. One of the katchra shoots is regularly used and works efficiently. The need of these shoots in this gully is very apparent. Here is a gully, on either side of which are five houses, tenanted by at least one hundred high caste Gujarati Hindus. This gully six feet wide forms the only means of passage to the privies at the end of the gully. The high caste Gujarati women living in these houses, three and four stories high, seemed to take a positive delight in throwing their katchra and other filth upon the heads of those below. My workmen continually complained of it. Twice I was hit, once by kitchen refuse and once by child's excrement thrown down in a bit of cloth. I have to make fre-

quent visits at all hours of the day, and found that my only protection from the "raining" katchra was an umbrella. We Europeans cannot complain of this because one hundred years ago Edinburgh was just as bad, "Gardeloo." It only shows the necessity for these katchra shoots, and I trust that the Committee will make a prominent feature of it in their report.

6. I trust in conclusion that the Committee will see their way to report, after full investigation, that I have made a fairly successful step in advance in solving the problem how to effect the separation of katchra and earth from sullage in enabling our gully drain to fulfil their legitimate work of carrying off this effluent sullage free from undissolvable mattter, and in so constructing them that they can be at any time examined and thoroughly cleaned along the whole of their length.

7. The covers have swivel bolts attached by which they are securely fixed in place and can only be opened and removed by the person in possession of the key. There are also keys to insert in the cover for lifting it. These I will give to Mr. James, the Drainage Engineer.

I made the covers in teak as that was done more quickly in experimental work. They can be done without difficulty in cast iron.

DAVID GOSTLING.

Mr. Balchandra drew the attention of the Committee to the fact that the balance at their disposal was small, and that, under the circumstances, it was advisable to discontinue having verbatim reports of their proceedings.

Mr. Blaney also considered that as there were no further witnesses to examine, they could do without the services of a reporter.

On the proposal of Thomas Blaney, Esq., seconded by Bhalchandra K. Bhatawadekar, Esq., it was *resolved*:—That from and after this meeting the services of the shorthand writer for reporting the proceedings of the Committee need not be retained.

Proposed by Bhalchandra K. Bhatawadekar, Esq., seconded by Fardunji N. Bisni, Esq., and *carried*—

That, with reference to the Corporation's Resolution No. 3720 of the 5th instant, and the Commissioner's letter forwarded therewith, the Committee beg to inform the Corporation that they (the Committee) have been diligent in carrying out the important duties entrusted to them, and they, in endeavouring to expedite the submission of their report, beg to add that no discourtesy was intended by merely recording the Corporation's Resolution No. 1862 of 14th May last, and the Commissioner's letter No. 791 of 10th April 1894.

The resolution of the Corporation No. 3720 of the 5th instant, addressed to the Committee, was read by the Secretary.

Mr. Balchandra : I think the Committee might write a reply to the uncalled-for strictures of the Commissioner.

Mr. Blaney : Let us proceed with our work, although our skins may be touched under the straw by gentleman like Mr. Roughton. This is not the time for us to strike out. When we present our report, that will be the time to defend ourselves.

The Chairman : Will it not be called inattention ?

Mr. Balchandra : I think the resolution of the Corporation has been taken in a different sense; it has been misunderstood in some quarters, and that we were discourteous in not replying to the Commissioner. I think it would be advisable to send a reply, saying, that we are going on with our investigations as quickly as possible.

Mr. Blaney : Would it not be enough to say we are giving our best attention to a great and important duty, and we hope to come to some conclusion and submit a report in due time.

Mr. Katrak : " In due time " is indefinite.

Mr. Balchandra : Make it " within reasonable time."

Mr. Katrak : I would suggest that, we say, the Committee is doing its best, and if there is delay it is not owing to the remissness of the Committee.

The Chairman : That may not satisfy the Corporation.

Mr. Katrak : We cannot help it.

The Chairman : Would it not be better to say we are now considering the heads of the report ?

Mr. Katrak : The fact is we have been doing our best, and if there is delay it is not owing to any remissness on our part.

The Chairman : They seem to think we have been sleeping over the work for two years.

Mr. Balchandra : Even the Commissioner thinks that.

Mr. Blaney : Even Lord Roseberry and Mr. Gladstone are attacked. Why need we care when people criticise, who know nothing about our duty.

The Committee then proceeded to view Mr. Gostling's experiment which had been completed. Dr. Weir, Mr. Smith, Mr. Barrow and Mr. James accompanied the Committee.

Arriving at the gully experimented on, the Committee first observed that the small holes in the cover blocks of the drain were blocked. Mr. Gostling explained that the sweepers had done this in cleaning the gully.

Mr. Katrak : Does that drain carry night-soil ?—Mr. Gostling : Yes.

How is the drain flushed ?—By the water which comes down with the night-soil.

Mr. Balchandra : Do you think the smells are less, Dr. Weir ?

The Health Officer : Yes, they don't seem to be as bad as on a former occasion.

Mr Balchandra : That is worth noting. How many times a day is the gully cleaned ?

Mr. Smith : One muccadum and a sweeper are always here.

A memorandum showing the number of times the gully had been cleaned was put in.

Mr. Gostling : I suppose you put on two men to look after the gully ? Mr. Smith : I was informed that the gully was frequently choked, and that two men were necessary.

The interior of the drain was examined, and Mr. Gostling explained that it had not been touched for three weeks or a month.

Mr. Blaney : The scheme is on the principle that any solids that get into the drains retard the flow of sewage and increase decomposition. That is the trouble in our system of drainage. To that extent the experiment is a good one. The only way to keep these things properly at work is to depute five members of the Corporation to do it.

Mr. Katrak : The solids remain on the surface of the gully and the liquids go below. It is a question whether the trouble arising from both is better than the single trouble you get from an open gully, or a gully with a pipe drain.

Mr. Gostling : The pipe in this gully was entirely choked and would not work.

Mr. Katrak : Once you soil the surface I don't see the object of having anything underneath.

Mr. Gostling : Some explanation ought to be given about the cleaning. Let the letter be placed on record. If the Engineers don't want to use my suggestions I give it up. I have done this for the good of the Corporation.

The Committee then adjourned until Friday, the 13th instant.

BOMBAY, 13*th July* 1894.

AT the meeting of the Committee held this day, there were present :—

The Hon'ble Mr. Javerilal U. Yajnik, Ardesir D. Mody, Esq., Thomas Blaney, Esq., Cowasji Pestonji, Esq., Kaikhosro N. Bahadurji, Esq., Nanabhoy N. Katrak, Esq., and Accacio G. Viegas, Esq.,

The Special Drainage Engineer, the Drainage Engineer, and the Secretary.

Messrs. John Hewson and John Wallace were also present.

The minutes of the meeting held on 6th instant were signed.

Read the following :—

BOMBAY, *9th July* 1894.

H. W. BARROW, Esq.,

Secretary, House Connections Committee.

DEAR SIR,—I enclose for your and the Committee's information copies of letters I have this day addressed to the Drainage Engineer and the Health Officer upon the improved house connections I have constructed in the Vithalwadi Gully, Shek Memon Street.

I ask that you will circulate these letters to the Committee.

I will attend the meeting of the Committee, which I understand is to be held on the 13th instant, and I ask that the Committee will make a further official inspection of this gully with me on Friday, the 20th instant, or better still the 27th instant, by which time I trust it will be thoroughly tested.

It will take some little time, after the receipt by the Drainage Engineer and Health Officer of these letters, for them to give the necessary instructions to their inspectors and have their orders carried into effect, and hence it may be necessary to postpone the official visit till Friday, the 27th instant.

The Committee must have noticed in their visit of the 6th instant that the gully was wonderfully free from smell.

I ask that the Committee will resolve that these letters, which I consider very important, should be printed in their records.

I think it will be better to postpone the official visit till the 27th instant, as that will give time for the silt to collect and show itself in the lower sewer under the grooves.

Yours truly,

D. GOSTLING.

Proposed by Ardasir D. Mody, Esq.,

That Mr. Gostling's letter, dated 9th instant, and accompaniments be printed.

Not seconded.

It was agreed that the papers be *recorded*.

Read also Mr. Gostling's letter, dated this day, as follows :—

BOMBAY, *13th July* 1894.

H. W. BARROW, Esq.,

Secretary, House Connections Committee.

DEAR SIR,

I enclose you herewith a copy of my diary to date.

As to-day is a Hindu holiday, I do not propose to attend the Committee to-day unless you urgently send for me, as I wish to continue my inspections for the next week or fortnight.

You will see from my diary that I have already succeeded in preventing the grooves from choking up.—Yours truly,

D. GOSTLING.

Vithalwadi Gully. *Mr. Gostling's Diary*, 1894.

July 11th Wed. Inspection, by appointment with the Health Department Inspector, Muccadum, and Halal-khor. Showed them how to sweep away *from* the covers, not *on to* the covers, also to do no work on the three following Fridays.

July 12th Thurs. 10 a.m. widened the grooves of the four upper covers to their original width of $\frac{3}{8}$ inch.

July 13th Friday. Inspection. Found that out of 32 grooves in the four covers widened yesterday morning, 26 were fully open, 3 partly closed, 3 entirely closed. My carpenter widened the lower part of all the grooves to $\frac{3}{8}$ inch, the upper part of all of them being widened to $\frac{5}{8}$ inch.

Proposed by Dr. Bahadurji and *resolved*:—"That the Committee visit Mr. Gostling's experimental gully fittings in Vithalwady, at the conclusion of their Meeting, on 27th instant. Mr. Gostling to be informed accordingly.

Considered again the following proposal of Nanabhai N. Katrak, Esq., which was moved on the 9th February last:—

"Houses with side gullies and back gullies in which houses the sullage is likely, in the opinion of the Health Officer, to be of a complex character.

"That the sullage from the end of the down-take pipe be conveyed along an open channel in the house gully."

Proposed by Thomas Blaney, Esq., seconded by Cowasji Pestonji, Esq.

That the following proposal be referred to the Commissioner for favour of remarks, especially in the way of objection to the proposal:—

"*Houses with side gullies and with or without back gullies in which house sullage is likely, in the opinion of the Health Officer, to be of a complex character.*

"That the sullage from the end of the down-take pipe be conveyed along an open channel in the house gully."

Carried.

The Committee then adjourned to Friday, the 20th instant, at 3 p.m.

BOMBAY, *20th July* 1894.

AT the meeting of the Committee called for this day, at 3 o'clock, there were present:—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman: Bhalchandra K. Bhatawadekar, Esq., Thomas Blaney, Esq., Kaikhosro N. Bahadurji, Esq., Nanabhai N. Katrak, Esq.,

The Health Officer, the Drainage Engineer, and the Secretary.

Messrs. John Hewson and John Wallace were also present.

As there was not a quorum of members, the Chairman shortly before 4 o'clock adjourned the proceedings to the 27th instant.

BOMBAY, *27th July* 1894.

AT the Meeting of the Committee held this day, there were present :—

Ardasir D. Mody, Esq.; Bhalchandra K. Bhatawadekar, Esq.; Thomas Blaney, Esq., C.I.E.; Cowasji Pestonji, Esq.; Fardunji N. Bisni, Esq.; Kaikhosro N. Bahadurji, Esq.; Moreshwar G. Deshmukh, Esq.; Nanabhai N. Katrak, Esq.; the Hon'ble Mr. Pherozeshah M. Mehta, C.I.E.;

The Health Officer; the Drainage Engineer; the Drainage Engineer on Special Duty; and the Secretary.

John Wallace, Esq., was also present.

On the motion of Nanabhai N. Katrak, Esq., seconded by Bhalchandra K. Bhatawadekar, Esq., Thomas Blaney, Esq., was voted to the Chair.

The minutes of the meeting held on the 13th instant, and the record of the meeting called for the 20th idem, were signed.

Read and *recorded* the following :—

BOMBAY, *19th July* 1894.

H. W. BARROW, Esq.,

Secretary, House Connections Committee.

DEAR SIR,—I herewith enclose you, for presentation to the Committee, a continuation of my diary up to to-day inclusive.—Yours truly,

D. GOSTLING.

VITHULWADI GULLY.

1894.

Saturday, 14th July. Inspection 8 a.m.—By order, the gully had not been swept yesterday. Full of green and other kachra, which was quite dry, ready for sweeping. But little wet mud in the gutter. The water had escaped down the grooves, all of which were open, not one choked.

Monday, 16th July. 8 a.m.—Heavy showers on Sunday and this morning. Much kachra on the paving and in the surface drain. Out of 32 grooves in the upper gully one-half were choked with kachra, not with sand. These I cleaned out with the trowel. The other half were flowing free, and as all water flowed from the paving into the surface gutter, the paving was dry for walking on.

Thursday, 19th July. 9 a.m.—I have made no visit since Monday. There has been heavy rain in the interval.

Out of 56 grooves in the seven covers, I find that eight only are closed entirely, and six partly closed. The remaining 42 grooves are fully open. The grooves are working properly. I arrived just after the gully had been swept by the Halalkhore. I noticed the marks of the broom on the closed grooves, and that the Halalkhore is taking an intelligent interest in the work. Since I have altered the grooves the mere sweeping of the broom helps to keep the grooves open and clear from kachra. I did not open the closed grooves.

BOMBAY, 23*rd July* 1894.

H. W. BARROW, Esq.,

Secretary, House Connections Committee.

DEAR SIR,—I shall be up-country the whole of this week on professional business, and shall be obliged, therefore, by the Committee postponing their official inspection till Friday, the 3rd proximo, at 5 P.M.

I shall, of course, be very glad of the members of the Committee individually inspecting the gully, any time they are passing the neighbourhood.

They will find, I think, that I have solved the problem of designing a surface gutter, which intercepts all kachra and sand, and yet passes off all the water and matters in solution with a good scour by means of the deeper gutter underneath.

Should any foul odours at any time arise from the lower gutter (which the experience of the Committee shows is unlikely), these odours will pass through the grooves into the upper air.

Hence, there are really two open surface gutters. A lower gutter to pass off the sullage water, and an upper gutter to intercept kachra and sand, which would otherwise choke the lower gutter.

I enclose my diary which shows that the grooves are acting properly, and requiring no attention on my part, now that the Halalkhore knows what is required.

The two gutters I would describe as follows:—

The upper surface gutter is an intercepting or straining gutter.

The lower surface gutter is a working gutter.

Dr. Blaney, at our previous inspection of the 6th instant, said the gutter appeared to be an expensive one to construct. He made this remark under a misapprehension.

The lower gutter costs the same as the ordinary side surface gutters in the streets. There is, in addition, the cost of the upper slabs and the grooved covers which form the intercepting or straining gutter.

The lower gutter is somewhat deeper than usual in this instance because it is made to carry night-soil from new-pattern native water-closets approved by the Municipality, and I found it necessary to give the increased depth in order to prevent this night-soil from flowing back into the side moree-gutters, which, according to my original plan, I constructed underground on each side of the main gutter.

As according to my new design the side gutters from the morees are on the surface of the paving, such additional depth of the lower gutter would no longer be necessary, and it will work efficiently with shallow depth even though night-soil from water-closets should be at any time connected with it.—Yours truly,

D. GOSTLING.

Mr. Gostling's Diary—continued.

1894.

Thursday, 19th July. 4 p.m.—Inspection with the Health Department Inspector.—Showed the Halalkhore again how to use his broom so as to prevent the choking of any of the grooves. With his broom he also opened the eight grooves that were choked this morning.

Monday, 23rd. Inspection 9 a.m.—The grooves all in good order, the water flowing free. The gutter and gully is full of kachra, not having been yet swept. The Halalkhore now understands how to keep the grooves open, and is doing his work properly. I touched none of the grooves.

Read the following:—

No. 8949 OF 1894-95.

BOMBAY, 16*th July* 1894.

To THE MUNICIPAL SECRETARY.

SIR.—In answer to your No. 4099, dated 14th instant, I have the honour to say that I do not understand what "house-sullage of a

complex character" means, nor is there any provision of the law which I am aware of which gives the Health Officer a governing or determining voice overriding that of the Commissioner as to the character of the mechanical appliances to be used in conveying sullage from the house to the street sewer. If that character is to be determined by the authoritative opinion of the Health Officer as to the character of the sewage, the Commissioner is, for the purposes of sections 231 and 232 of the Act, made subordinate to the Health Officer.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : "That, in the opinion of the Committee, house-sullage of a complex character consists of various solids and fluids such as are found in our drains and sewers."

The Committee, having reconsidered their resolution of the 13th instant, *Resolved* that the same be amended and passed as follows :—

"That the following proposal be referred to the Commissioner for favour of remarks, especially in the way of objections to the proposal.

Houses with side gullies and with or without back gullies.

"That the sullage from the end of the down-take pipe be conveyed along an open channel in the house gully as shown in the red model."

Considered the following :—

No. 9046 of 1894-95.

Bombay, 17*th July* 1894.

To the MUNICIPAL SECRETARY.

Sir,—I shall be obliged by your informing the House Connections Committee that the gully in Shekh Memon Street, which was treated so as to exhibit Mr. Wallace's plan of house connections, is greatly complained of on account of the nuisance which the system causes. If the House Connections Committee have no objection, I will give orders to have it restored to its original condition.—I have, &c.,

H. A. ACWORTH, Commissioner.

Resolved : "That the Commissioner be informed, with reference to his No. 9046 of 17th instant, that if he thinks the condition of the gully in Shekh Memon Street is worse than it was in its original condition, he is at liberty to take such steps as he may consider necessary in the matter."

Proposed by Nanabhai N. Katrak, Esq.—

Houses with side gullies with or without back gullies in which houses the sullage is likely to be merely bath-water and not of a complex character.

That the sullage at the end of the down-take pipe may, if so desired by the owner of such a house, be conveyed along an open channel as shown in the red model.

With the consent of the meeting this proposal was *withdrawn.*

Proposed by Nanabhai N. Katrak, Esq., and *carried.*

"*Houses with back gullies only.*

"That the sullage from such houses be conveyed to the street sewer along an open channel in rear of the house as shown in the red model.

"That in cases where the level of the gully is not sufficiently below the level of the ground floor, it may be desirable to raise the level of the nahni."

The Committee then adjourned to Friday, the 3rd proximo, at 3 p.m.

BOMBAY, *3rd August* 1894.

AT the meeting of the Committee called for this day, there were present:—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman; Thomas Blaney, Esq., C.I.E.; Fardunji N. Bisni, Esq.; Kaikhosro N. Bahadurji, Esq.; and Nanabhai N. Katrak, Esq.

The Secretary.

Messrs. John Wallace and John Hewson were also present.

The Committee, after waiting from 3 to 4-30 p.m., adjourned, for want of a quorum, until Friday, the 10th instant, at 3 p.m.

Bombay, 10th August 1894.

AT the meeting of the House Connections Committee held this day, there were present:—

Ardasir D. Mody, Esq.; Bhalchandra K. Bhatawadekar, Esq.; Thomas Blaney, Esq.; Cowasji Pestonji, Esq.; D. A. D'Monte, Esq.; Fardunji N. Bisni, Esq.; K. N. Bahadurji, Esq.; Nanabhai N. Katrak, Esq.; the Health Officer; the Special Drainage Engineer; and the Secretary.

There were also present John Hewson, Esq.; and John Wallace, Esq.

On the motion of Bhalchandra K. Bhatawadekar, Esq., seconded by Nanabhai N. Katrak, Esq., Thomas Blaney, Esq., was voted to the chair.

The minutes of the meeting held on 27th July and the record of the meeting called for the 3rd instant, were signed.

Read and recorded the following :—

No. 10160 of 1894-5.

To the MUNICIPAL SECRETARY.

Bombay, 31*st July* 1894.

Sir,—I have the honour to acknowledge your No. 4609 of 28th instant.

With reference to the resolution quoted in the margin, I have the honour to say that I am reluctant to commit myself in a case in which the final responsibility rests with me to any general hypothesis, but I may go so far as to say that I should probably not object to open drains in the case supposed unless the down-take pipe was connected with a water closet. In this case the gully drain would convey night-soil as well as fluids, and I am at present doubtful whether it should be open. The objections to an open drain even in the latter case are however perhaps rather sentimental than sanitary.—I have, &c.,

> The Committee having reconsidered their resolution of the 13th instant, *resolved* that the same be amended and passed as follows :—
> "That the following proposal be referred to the "Commissioner for favour of remarks, especially in "the way of objections to the proposal." House with side gullies and with or without back gullies.
> That the sullage from the end of the down-take pipe be conveyed along an open channel in the house gully as shown in red model.

H. A. ACWORTH, Commissioner.

Read and recorded the following :—

Vithalwadi Gully.

Mr. Gostling's Diary—(continued).

1894. Wednesday, August 1st.—Inspection at 9 a.m. Found 32 out of 56 grooves losed. The other 24 grooves were partly open and the water was flowing freely into them. There was no block to the flow of water in the surface gutter.

D. GOSTLING.

APPENDICES.

VITHALWADI GULLY.

Mr. Gostling's Diary—(continued).

1894. Monday, August 6th.—Inspection 9 a.m. I have made a further improvement in the surface gutter by cutting seven slopes 1½ foot wide on one side of the gutter so that the sweeper can now easily sweep all the kachra out of the gutter with his broom, in heaps, for basketting away.

D. GOSTLING.

6th August 1894.

H. W. BARROW, Esq.,

Secretary, House Connections Committee.

DEAR SIR,—I enclose you above my diary since my last inspection of the 1st instant, to date.

I will attend the meeting of Committee at 5 p.m. on Friday, the 11th instant, and will accompany the Committee to inspect the gully in question.—Yours truly,

D. GOSTLING.

Read and recorded the following :—

No. $\frac{D}{3494}$ OF 1894-5.

BOMBAY, *2nd August* 1894.

TO THE MUNICIPAL COMMISSIONER.

SIR,—I have the honor to state that the House Connections Committee have asked for samples of glass lined pipes which I beg to forward herewith. (2) These pipes are made by Messrs. Shanks and Co., the principal sanitary fitting manufacturers in England, and the glass is poured into the pipes in the liquid state when the pipes are very hot, and as the glass is made from iron stone it lends itself to a certain extent to expansion and contraction with the pipe, so that I think there will be very little danger of the lining peeling off. (3) These pipes have been got out from England by Messrs. Garlick and Company, but the rates have not yet arrived, so I regret I am unable to send the rates with the pipes, but they will be forwarded at a later date.—I have, &c.,

C. C. JAMES, A.M.I.C.E.,

Drainage Engineer.

No. 10376 OF 3-8-94.

Forwarded to the House Connections Committee.

H. A. ACWORTH, Commissioner.

BOMBAY MUNICIPALITY.

Read and recorded the following :—

BOMBAY, 10*th August* 1894.

H. W. BARROW, ESQ.,

Secretary, House Connections Committee.

DEAR SIR,—I was unable to attend the meeting of the Committee on the 17th of July 1894, and respectfully submit to the Committee that the resolutions passed for

(1) Houses with side gullies and with or without back gullies.

(2) Houses with back gullies only, will not overcome the objections to the present House Connections, and I submit the following proposals in lieu thereof :—

(1) Houses with side gullies with or without back gullies.

In the case of new houses the drainage or water closets, privies, and urinals shall pass to the sewer by a 4" pipe fixed inside a ventilating shaft measuring 2'-6" × 2'-6" inside to such height as may be required by the Municipal Commissioner, the bottom of the pipe connected to a 4" trap at the bottom of the ventilating shaft and connected to a 4" pipe laid underneath the gully, connected to the sewer. The sewer end of the trap at the bottom of the ventilating shaft to be fitted with a 4" vent pipe to ventilate the sewer, such pipe to be fixed inside the ventilating shaft.

In the case of privies, the soil to be flushed through the trap by an annular syphon fixed in the ventilating shaft.

In the case of old water closets, privies, and urinals having no air space, the drainage into similar connections fixed to the outside of the building.

The sullage to pass from the down-take pipes into a paved gully and flow along its surface to its end and pass through a trap into a catch-pit 6' × 3'×5' built in the street, the overflow of this catch-pit passing through a grating and trap to the sewer. The solids as from the catch-pit to be cleared by hand once a week.

Houses with back gullies only.

The drainage of water closets, privies and urinals shall pass to the sewer by a 4" pipe fixed inside a ventilating shaft measuring 2'-6" × 2'-6" inside to such height as may be required by the Municipal Commissioner. The bottom of the pipe connected to a 4" trap at the bottom of the ventilating shaft and connected to a 4" pipe leading to a 9" pipe sewer laid underneath the gully. The sewer end of the trap at the bottom of the ventilating shaft shall be fitted with a 4" vent pipe to ventilate the sewer, such pipe to be fixed inside the shaft.

In the case of privies the soil should be flushed through the trap by an annular syphon fixed in the shaft.

In the case of old privies, water closets, and urinals having no air space, the drainage may pass by similar connections fitted outside the building.

The sullage to pass by down-take pipes into the back paved gully and flow of the same through a trap into a catch-pit measuring 6'-0" × 3'-0" × 5'-0" built in the gully. The overflow of the catch-pit passing through a grating and trap to the sewer. The sullage from the catch-pit to be cleared once a week by hand.—Yours truly,

JOHN HEWSON.

The Committee proceeded to consider the following proposal of Mr. Nanabhai N. Katrak :—

"(*d*) *Houses without any side or back gullies and without any outlet from the front.*

"That the sullage from such houses be conveyed to an open well or shaft at the back of the house from whence it be conveyed to the street sewer along the closed pipe in the ground floor and laid in concrete."

After discussion, it was agreed, on the proposal of Dr. Kaikhosro N. Bahadurji, that the Committee adjourn to the house in Bazaar Gate Street, fitted by Mr. Hewson.

Having carried at the house, the Committee carefully examined the ventilating shaft in the ground floor, when it was found there was no up-draught and that gases from the sewage collected in the catch-pit permeated the premises. Other proposals for protecting the inside of the premises from sewer-gas were then discussed, and at 5 p.m. the meeting was adjourned, it being the desire of the Committee to continue the discussion at next Friday's meeting.

It was decided that the next meeting be held at 3 p.m. on Friday, the 17th instant.

BOMBAY, 17*th August* 1894.

AT the meeting of the Committee called for this day, there were present :—

Thomas Blaney, Esq., C.I.E. ; D. A. D'Monte, Esq., M.D. ; Fardunji N. Bisni, Esq. ; Kaikhosro N. Bahadurji, Esq., M.D. ; and Nanabhai N. Katrak, Esq.

The Drainage Engineer on Special Duty, and the Secretary.

Messrs. John Wallace, John Hewson, and D. Gostling, were also present.

As there was not a quorum of members, the Committee, after having waited an hour and a quarter, adjourned to Friday, the 24th instant, at 3 p.m.

BOMBAY MUNICIPALITY.

BOMBAY, *24th August* 1894.

AT the meeting of the House Connections Committee called for this day, there were present:—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman; Ardesir D. Mody, Esq.; Bhalchandra K. Bhatawadekar, Esq.; Thomas Blaney, Esq., C.I.E.; and Nanabhai N. Katrak, Esq.

Surgeon-Lt.-Col. T. S. Weir, Acting Commissioner; and the Secretary.

Messrs. John Wallace and John Hewson were also present.

As there was not a quorum of members, the Committee, after having waited an hour, adjourned.

BOMBAY, *31st August* 1894.

AT the meeting of the Committee held this day, there were present:—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman; Ardasir D. Mody, Esq.; Bhalchandra K. Bhatawadekar, Esq.; Thomas Blaney, Esq., C.I.E.; Cawasji Pestonji, Esq.; D. A. D'Monte, Esq.; Fardunji N. Bisni, Esq.; Kaikhosro N. Bahadurji, Esq.; Nanabhai N. Katrak, Esq.; Accacio G. Viegas, Esq.; Surgeon-Lieut.-Col. T. S. Weir, Acting Commissioner; and the Secretary.

D. Gostling, Esq., was also present.

The records of the meetings called for the 17th and 24th instant were signed.

Considered Mr. Gostling's Diaries as under:—

Vithalvadi Gully. *Mr. Gostling's Diary continued.*

Wed., August 8th, 1894, 2-30 p.m.—Inspection with the Health Inspector. *Saw the gully cleaned by the sweeper, up the slopes, which I have cut* in the side of the surface gutter.

Thursday, 9th.—Wrote letter to Mr. Murzban, Executive Engineer, on the subject of these connections.

Friday, 10th.—In the evening after the Committee, inspected the gully, opened one of the covers. Found the under-gutter free from sand. It had not been opened and cleaned since the 9th ultimo.

Opened the cesspit cover. Found it nearly full of mud, which had been intercepted from flowing into the street sewer. This had not been opened and cleaned since the 9th June, *i.e.*, two months.

Replaced both covers without touching contents of lower gutter or cesspit.

Monday, 13th, 11 a.m.—Inspection. Found the new slopes perfectly successful.

All the grooves are wide open, not one has choked, though they have not been cleaned since the 8th instant. Saw the woman engaged in the morning sweeping of the gully. She was doing her work properly.

D. GOSTLING.

Considered also Mr. Gostling's letter of the 9th August 1894, which had previously been circulated to the Committee.

Resolved: That as the quorum now present have assured the Chairman that they will do their best to be regular in their attendance at future meetings, the business be now proceeded with.

The consideration of the following proposal of Mr. Nanabhai N. Katrak was deferred, as the Drainage Engineer was not present.

"*Houses without any side or back gullies and without any outlet from the front.*"

"That the sullage from such houses be conveyed to an open well or shaft at the back of the house from whence it be conveyed to the street sewer along the closed pipe in the ground floor and laid in concrete."

It was agreed that the Drainage Engineer be asked to attend the next meeting in connection with this proposal.

Proposed by Nanabhai N. Katrak, Esq.—

"*Houses without side or back gullies, but with roads at both the side.*"

"That the sullage from the houses be conveyed to a shaft at the less frequented of the two streets from whence it be conveyed to the street sewer."

The Chairman ruled that this was out of order, as it did not come within the instructions to the Committee.

The consideration of the following proposal of Mr. Nanabhai N. Katrak was postponed until next meeting:—

"*Houses open to streets on three sides.*"

The consideration of the question of *down-take pipes* was postponed.

The Committee separated at 5 p.m., as there was not a quorum remaining.

The Chairman adjourned the meeting to Friday, the 7th proximo, at 3 p.m.

BOMBAY, *7th September* 1894.

AT the Meeting of the Committee held this day, there were present:—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman; Ardesir D. Mody, Esq.; Bhalchandra K. Bhatawadekar, Esq.; Thomas

Blaney, Esq.; Cowasji Pestonji, Esq.; D. A. D'Monte, Esq.; Fardunji N. Bisni, Esq.; Kaikhosroo N. Kabraji, Esq.; and Nanabhai N. Katrak, Esq.

Surgeon-Lieutenant-Colonel T. S. Weir, Acting Commissioner; the Drainage Engineer on Special Duty; and the Secretary.

The minutes of the meeting held on the 31st ultimo, were signed.

It was agreed that the circular issued by the Chairman, as under, on the 27th ultimo, be *recorded* on the minutes of this day's meeting.

"In consequence of the irregularity and deficiency of attendance of members of the Committee the Chairman considered it had now become his duty to request the Corporation to dissolve the Committee. He proposes, therefore, to call one more meeting of the Committee on Friday next, the 31st instant, when, unless otherwise advised, he will formally submit his proposal to the Corporation.

"With the view of giving all the members of the Committee an opportunity of meeting and discussing on Friday next, the view which the Chairman has felt constrained to take of the work of the Committee this memorandum is circulated to all the members."

Having consulted Surgeon-Lieutenant-Colonel T. S. Weir, Health Officer, Acting Commissioner, the Committee on the motion of Thomas Blaney, Esq., seconded by Bhalchandra K. Bhatawadekar, Esq.—

Resolved: "That in the opinion of the Committee an alteration of the law should be made so as to provide that in future all buildings should have a side gully."

Considered proposal made on the 31st ultimo, by Nanabhai N. Katrak, Esq., as follows :—

"*Houses without any side or back gullies and without any outlet except from the front.*"

"That the sullage from such houses be conveyed to an open well or shaft at the back of the house from whence it be conveyed to the street sewer along the closed pipe in the ground floor and laid in concrete."

The Drainage Engineer, on special duty, in reply to the Committee, said :—

The two plans which I have here, No. 144 and No. 145, of 15th June 1894, I have prepared to show how I would drain the house in Bazaar Gate Street which has been experimentally drained according to the suggestions of Mr. Hewson. The drains would all be of stoneware pipe, the main line being 6" in diameter and the branches 4". They would be embedded in and surrounded

with concrete at least 6" thick outside the pipe measured in any direction. Passing along the main line, starting from the street sewer the first point to be observed is a junction with a 4" branch leading to a vent-pipe fixed against the front of the house and carried above the roof. The next point is a running siphon with an inspection inlet brought up to the surface of the foot-path. The next point is another junction branch and vent-pipe similar to that previously described. The object of this latter vent-pipe is to provide for a free escape of the air contained in the pipe drain when a flush were taking place from the flush-tank. The junctions, branches, vent-pipes and the running siphons already described would all be outside the house. At each nahani or at the bottom of each tire of nahanis I have provided a stoneware gully trap which would be sunk below the ground floor and hermetically sealed by means of a stone fair with the surface of the floor. Each of these gully traps would be connected with the main pipe drain by means of a 4" stoneware pipe branch embeded in concrete as previously described. On the main line of drain near the stairs where several branches converge I have provided an inspection-chamber that would be hermetically covered with a stone fair with the surface of the floor, as previously described in the case of the gully traps. At the foot of the soil-pipe from the privies I have provided a stoneware gully trap which would be covered as previously described, but this would be in direct connection with the 6" pipe drain without the intervention of a 4" branch pipe. At the end of the 6" pipe drain, I have provided a 3" vent pipe which would pass up in one corner of the water-closet on the ground floor, but above the ground floor would be in the open air and carried up above the roof of the house. In communication with the inspection chamber, already mentioned, I have provided a wrought-iron flush tank fitted with an automatic annular syphon which by regulating a stop-cock on the service pipe could be made to discharge as frequently as might be found necessary. I have provided for each nahani a small cast iron trap and grating in communication with a 3" down-take pipe, the upper end of which would be carried up above the roof of the house, and the lower end would discharge into a stoneware gully trap, as previously described. Each water-closet would be fitted up with a soil-pan and a waste preventive cistern. The cisterns would be supplied from a wrought iron tank on the top of the uppermost water-closet. Each soil-pan would be flushed into a 4" cast iron trap in communication with the 4" soil-pipe, the upper end of which would be carried above the roof of the house and the bottom end would discharge into the gully trap previously described.

Surgeon-Lt.-Col. Weir, Health Officer, Acting Commissioner, said that in houses of this kind he is of opinion that the best course is to improve the existing flat bottomed or imperfect drain by converting it into an ovoid drain slabbed over with a catchpit on the side of the street into which the down-take pipes from the nahanis should discharge. He did not see how the existing system of privy with basket provision can be altered with safety, as the difficulty in the way of adopting syphons is that, they stop the passage of solid matters just at the point where such matters cannot be got at.

Mr. Nanabhai N. Katrak said his proposal was a modification of Mr. Smith's, namely :—Beginning from the nahani a continuous pipe, running from the ground floor to above the roof and protected by a wire cage at the top. This continuous pipe has a branch pipe for each nahani at each floor, the hole of which is covered with a perforated desk or with grating, the bars being very close, to prevent solids from going into the pipe. There are as many continuous pipes as there are nahanis on a floor. All these continuous pipes are connected with a horizontal pipe (earthen-ware) under the floor, sloping to a shaft or well open to the sky, constructed in the open space by the side of, or round the privy, where it discharges all the sullage. From this point the sullage passes through a trap with a grating to a pipe passing under the floor and sloping towards the street, the pipe discharging into a combined catch-pit and running siphon (model of which was shown to the Committee by Mr. James) placed in the street and not on the footpath as at present. This outlet pipe to be ventilated by these vent pipes, one issuing from the street side of the running siphon, the other at a point where it emerges from the house, and the third, at the street end of the trap. The shaft is to have no communication with the house, except through a door at the bottom. The shaft is to be at least 1½ feet square or larger, if practicable, the larger the better. Such houses have to be provided with water closet system, the soil passing through the outlet pipe. The flushing tanks to work automatically at certain stated periods during the day. In case the level of the house cannot allow of a sufficient gradient to the underground pipe (that which discharges into the shaft) the continuous pipes may be made to converge towards and discharge into the shaft. The pipes under the floor to be laid in concrete.

On the motion of Thomas Blaney, Esq., it was *resolved* (by 3 votes *against* 1 vote) :—"That the Committee having considered the proposals of the Engineer, the Health Officer, and Dr. Katrak, as to the manner in which the sewage of such houses should be

carried to the street sewer, are of opinion that they cannot recommend either proposal for the approval of the Corporation, because of the sanitary imperfections of the three. So long as houses of this class exist, the responsible sanitary authorities should use the least harmful system of sewerage of which the premises may be capable."

It was agreed that Mr. Wallace should be written to asking him whether he can conveniently attend the next meeting to be held on the 14th instant.

The Committee then adjourned to Friday, the 14th instant, at 3 p.m.

BOMBAY, *14th September* 1894.

AT the Meeting of the Committee held this day, there were present :—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman ; Ardasir D. Mody, Esq. ; Bhalchandra K. Bhatawadekar, Esq. ; Thomas Blaney, Esq. ; D. A. D'Monte, Esq. ; Nanabhoy N. Katrak, Esq. ; Accacio G. Viegas, Esq.

The Secretary.

John Wallace, Esq., was also present.

The Minutes of the Meeting held on the 7th instant, were signed.

Read the following :—

No. 19349 OF 1894-95.

BOMBAY, *5th September* 1894.

TO THE MUNICIPAL COMMISSIONER.

SIR,—I have the honour to forward herewith a statement of observations taken in the sewer at Shaik Memon Street from 3rd August 1894 to 2nd September 1894.—I have, &c.,

T. GLOVER,

Acting Assistant Health Officer in charge.

No. 13524 OF *11th September* 1894.

Forwarded to the Municipal Secretary for the information of the House Connection Committee.

T. S. WEIR, Acting Commissioner.

BOMBAY MUNICIPALITY.

OBSERVATIONS taken in the Sewer at Shaik Memon Street from 3rd August to 2nd September 1894 :—

DATE.	Taken at 9 A. M. Drain.	Height of Water in Drain.		Taken at 5 P. M. Drain.	Height of Water in Drain.		REMARKS.
		Ft.	In.		Ft.	In.	
1894.							
August 3...	86°	5	9	85°	4	9	Deposit in drain on 8-8-94 11 inches.
„ 4...	85°	5	...	85°	5	2	
„ 5...		Sunday					
„ 6...	85°	5	3	85°	5	2	
„ 7...	85°	5	3	85°	4	10	
„ 8...	84°	6	2	85°	4	5	
„ 9...	85°	4	11	86°	3	10	
„ 10...	85°	5	3	86°	4	2	
„ 11...	84°	5	8	84°	4	8	
„ 12...		Sunday					
„ 13...	85°	5	1	84°	4	...	
„ 14...	84°	5	...	84°	4	...	
„ 15...	84°	4	11	85°	4	...	
„ 16...		Cocoanut Holiday					
„ 17...	84°	4	9	83°	4	6	
„ 18...	83°	5	1	84°	4	3	
„ 19...		Sunday					
„ 20...	84°	6	...	84°	5	9	
„ 21...	84°	5	8	83°	4	11	
„ 22...	84½°	5	6	83°	4	11	
„ 23...	84½°	5	9	83°	4	9	
„ 24...	84½°	5	6	84°	4	...	
„ 25...	83½°	5	8	85½°	4	5	
„ 26...		Sunday					
„ 27...	84½°	5	...	85°	4	4	
„ 28...	85°	5	..	85°	3	3	
„ 29...	78½°	6	10	81°	4	4	
„ 30...	82°	5	...	82°	4	3	
„ 31...	82°	5	3	83°	4	2	Deposit in drain on 31st August 1894 1 foot.
Sept. 1...	83°	5	...	83°	4	6	
„ 2...		Sunday					

Proposed by Thomas Blaney, Esq., seconded by Nanabhai N. Katrak, Esq.—

"That memorandum No. 13524 of 10th instant be returned to the Acting Municipal Commissioner, with a request that he will kindly inform the Committee whether the temperature shown in the return, forwarded with his memorandum No. 13524 of 11th instant, is the temperature of the sewage or of the air in the sewers.

"That he be also asked to give the Committee the same information with reference to observations taken at Queen's Road Sewer and at the Falkland Road Sewer."

Carried.

On the motion of Nanabhai N. Katrak, Esq., it was *resolved*, that the Acting Commissioner be requested to furnish the Committee with information on the following heads :—

1. Influences which determine the direction and velocity of the currents of the air in the sewers.

2. Influence of the wind on the direction and velocity of the currents of air in the sewers.

3. Influences which determine the production of gases in the sewer.

4. Influence which regulate the pressure of gases and tension of air in the sewers.

5. Effects of the ventilating shafts, pipes and the double-chambered ventilators on the air within and without the sewers.

Mr. Wallace expressed the following opinion on the question of down-take pipes :—

Down-take Pipes.—The limit of diameter of down-take pipes is determined not by the quantity of water they will pass per second, for a 2½" pipe would be ample to drain 8 rooms built one above the other. This is owing to the small quantities of water thrown at one time by natives into moris.

The limit is determined by the quantity and size of solid matter thrown or forced into the pipes and which cannot be washed through by the sullage, this solid matter is arrested principally in pipes fixed at a slope and in the syphons employed to arrest the passage of foul gases up the pipes. It is probable that most of the solid matter would be carried through the syphons if ample flushing were employed but even when a large quantity of water is thrown into a mori, the flush is spoiled by the spread of the water in the mori and its slow passage into the pipe. Although the syphon is a failure in Bombay on account of the solid matter which blocks it, some means of arresting currents of air in down-take pipes are necessary on account of the influence of falling water which drives air before it in its descent. Half gallon of water thrown into a 2½" pipe from a height of

11 feet (the pipe being sealed at the foot with water) will produce a compression of the air within the pipe equal to the pressure of a wind, wind of from 26 to 29 miles an hour.

Thus, if no means existed for cutting the house off from currents in the down-take pipes, every discharge of water from the upper stories would cause a nuisance in the lower rooms provided the pipes were continuous. Breaking the joints of the down-take pipes at every story reduces the risk, but the expelled gas is liable to be blown in at the nearest window.

The compression of the air may be avoided by making the down-take pipe large enough, but apart from the increased expense, which would be great, the increased area of the interior of the pipe would be a new source for the production of foul gas. The only safeguard against the introduction of solid matter which blocks the down-take pipes lies in the use of strong gratings fixed in every mori with holes so small that no matter, large enough to obstruct the pipe, can be passed through.

The discharge of glutinous matter which forms a lining, and by degrees chokes the pipe by accumulations of sand, is so rare that pipes obstructed in this way are curiosities ; this form of obstruction need not be provided for. The sliding flat stone, which has already been described in the report of this Committee, is only effective when made use of; in fact, no known sanitary appliance can work without an amount of co-operation from the people, which the inhabitants of Bombay do not appear disposed to give.

Proposed by Nanabhai N. Katrak, Esq., seconded by Bhalchandra K. Bhatawadekar, Esq.—

"That the thanks of the Committee be tendered to Mr. Wallace for the assistance he has given to the Committee by stating his opinion on the question of down-take pipes."

Carried.

The consideration of the following proposal of Mr. Nanabhai N. Katrak was postponed till the next meeting :—

Down-take pipes. Houses with side and back gullies.—Under this head the arrangement to be as follows :—1. A continuous down-take pipe, open at both ends, extending above the roof and terminating below, within a few inches above the surface of the gully, with a branch pipe going in to each nahani, the hole in the nahani being covered with a perforated disc or closely wrought grating; and a stone slab attached to a chain, such as recommended by Mr. Wallace for covering the mori hole.

That the diameter of the pipe should not exceed 4" or be less than 3".

The Committee then adjourned to Friday, 21st instant, at 3 p.m.

BOMBAY, 21*st September* 1894.

AT the Meeting of the House Connections Committee held this day, there were present :—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman ; Bhalchandra K. Bhatawadekar, Esq. ; Thomas Blaney, Esq. ; Cowasji Pestonji, Esq. ; D. A. D'Monte, Esq. ; Fardunji N. Bisni, Esq. ; Kaikhosro N. Bahadurji, Esq. ; Nanabhai N. Katrak, Esq.

Surgeon-Lieutenant-Colonel T. S. Weir, Acting Commissioner, and the Secretary, J. Wallace, Esq., and J. Hewson, Esq., were also present.

The minutes of the meeting held on the 14th instant were signed.

Read letter from Mr. D. Gostling, stating that he will attend the next meeting of the Committee.

It was agreed that the consideration of the following proposal, by Mr. Nanabhai N. Katrak, be postponed :—

Down-take pipes. Houses with side and back gullies.—Under this head the arrangement to be as follows :—1. A continuous down-take pipe, open at both ends, extending above the roof and terminating below, within a few inches above the surface of the gully, with a branch pipe going in to each nahani, the hole in the nahani being covered with a perforated disc or closely wrought grating ; and a stone slab attached to a chain, such as recommended by Mr. Wallace for covering the mori hole.

That the diameter of the pipe should not exceed 4" or be less than 3".

Resolved : That the Acting Municipal Commissioner be asked to request the Drainage Engineer on Special Duty to furnish the Committee with the cost of glass lined sewerage pipes.

Proposed by Thomas Blaney, Esq., seconded by Nanabhai N. Katrak, Esq.—

That the Acting Commissioner be asked to furnish the Committee with a report from the Drainage Engineer on Special Duty on the following points :—

The length laid down in each year since the introduction of the sewerage system by Mr. Walton—

Of masonry sewers ?
Of pipe drains in streets ?
Of pipe drains from houses to public drains.

Carried.

Proposed by Nanabhai N. Katrak, Esq., seconded by D. A. D'Monte, Esq.—

That the Acting Commissioner be asked to furnish the Committee with a report from the Drainage Engineer on Special

Duty as to what has been done with regard to the suggestions that the inside of a down-take pipe be cleaned, and shown to the Committee together with other pipes uncleaned.

Secondly, whether he recommends the adoption of glass-lined down-take pipes; and if so, the probable cost of the same and the period of their duration.

That the Acting Commissioner be asked to oblige the Committee by attending all their meetings and arranging for the attendance in the same way of the Drainage Engineer on Special Duty.

Carried.

The Committee then adjourned to Friday, the 28th instant, at 3 p. m.

BOMBAY, *28th September* 1894.

AT the meeting of the Committee held this day, there were present :—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman ; Ardasir D. Mody, Esq.; Bhalchandra K. Bhatawadekar, Esq. ; Thomas Blaney, Esq., C.I.E. ; D. A. D'Monte, Esq., M.D. ; Fardunji N. Bisni, Esq. ; Khaikhosru N. Bahadurji, Esq., M.D. ; Nanabhai N. Katrak, Esq. ; Accacio G. Viegas, Esq. ;

Surgeon-Lieutenant-Colonel T. S. Weir, Acting Commissioner ; the Drainage Engineer on Special Duty ; and the Secretary.

D. Gostling, J. Wallace, and J. Hewson, Esqrs., were also present.

The minutes of the meeting, held on the 21st instant, were signed.

Read and *recorded* the following :—

No. 4523 OF 1894-95.

BOMBAY, *18th September* 1894.

TO THE COMMISSIONER.

SIR,—In continuation of this Office No. $\frac{\text{D-3491}}{\text{2-9-94}}$, I have the honour to forward herewith a letter, dated the 8th September, from Messrs. Garlick & Co., quoting rates for glass-lined pipes, together with a statement marked $\frac{\text{A}}{\text{10971}}$, showing a comparison between those rates and the rates for ordinary pipes. It will be seen that the former are much higher than the latter, being in some cases more than four times as much.—I have, &c.,

JAMES W. SMITH, M. INST. C.E.,
Acting Drainage Engineer.

No. 14431 OF 25-9-94.

Forwarded to the House Connection Committee in continuation of this Office No. 10376, dated 3rd ultimo.

T. S. WEIR,
Acting Commissioner.

APPENDICES.

A
49971

Statement shewing a comparison of rates for (*a*) Glass-lined cast-iron pipes, and (*b*) ordinary cast-iron pipes for house drainage fittings :—

Particulars.	Rate.		Per
	Glass-lined, &c.	Ordinary.	
	Rs. a. p.	Rs. a. p.	
4" Pipes	4 8 6	1 2 0	Yard.
3½" Do.	4 1 6	1 0 0	Do.
3" Do.	3 10 0	0 14 0	Do.
4" Branches	5 5 0	.....	Each.
3½" Do.	4 15 0	.....	Do.
3" Do.	4 7 4	.....	Do.
4" Bends	3 15 0	1 10 0	Do.
3½" Do.	3 10 0	1 6 0	Do.
3" Do.	3 1 6	1 2 0	Do.

Proposed by Thomas Blaney, Esq., seconded by Bhalchandra K. Bhatawadekar, Esq. :—

"That the Acting Municipal Commissioner be requested to furnish the Committee with information in regard to the probable cost of down-take pipes of various sizes, lined with enamel, and a comparison of the cost and durability of enamel-lined and glass-lined down-take pipes."

Carried.

Considered the following *amended* proposal* made by Nanabhai N. Katrak, Esq.—

DOWN-TAKE PIPES.

Houses with side gullies and with or without back gullies.

Under this head the arrangement should be as follows :—(1) A continuous pipe, open at both ends, extending from above the

* See page 189 of the Committee's proceedings of 21st instant:—
The original proposal stood thus:—
Down-take pipes. Houses with side and back gullies.—Under this head the arrangement to be as follows:—1. A continuous down-take pipe, open at both ends, extending above the roof and terminating below within a few inches above the surface of the gully with a branch pipe going in to each nahani, the hole in the nahani being covered with a perforated disc or closely wrought grating: and a stone slab attached to a chain, such as recommended by Mr. Wallace for covering the moree hole.
That the diameter of the pipe should not exceed 4" or be less than 3".

roof running down the outside of the wall abutting "nahanies" on each storey, and terminating within a few inches above the surface of the gully, the sullage to be discharged into a branch channel joining a central channel as shown in the red model. The continuous pipe gives off a branch, going into each "nahani," which terminates at the "moree" hole, the hole being covered wi h a perforated plate, or closely barred grating, with a total area of perforations equal to at least half the area of the pipe. A thin stone slab, attached to a chain, should be provided for covering the "moree" hole. That the diameter of the pipe be not less than 3 inches.

(2) Beginning from the "nahani" a perforated plate, containing a number of holes, about $\frac{3}{8}$ or $\frac{1}{2}$ inch in diameter, from which a pipe falls, discharging into a cistern head on the down-take pipe, covered with a plate of iron; from this a down-take pipe 4 inches in diameter, and terminating within a few inches of the surface of the gully, discharges the sullage into a branch channel, joining the central channel on the surface of the gully as shown in the red model. The pipe from the nahani to have a slit, $\frac{1}{2}$ an inch wide, on its upper part. The down-take pipe from the upper storeys should traverse the covering plate on the cistern head. The cistern head should be sufficiently large to accommodate the pipe from the nahani and down take-pipe from above and to prevent the sullage from overflowing. A thin stone slab, attached to a chain, should be provided for covering the "moree" hole.

Either of these proposals may be adopted by the Drainage Engineer at his discretion.

Proposed by Thomas Blaney, Esq., seconded by Dominick A. D'Monte, Esq.—

"That the consideration of the proposal now made as to down-take pipes be postponed until the next meeting."

Carried.

The arrangement for party wall houses with back gullies only will be as follows :—

A continuous pipe, open at the top, extending from above and through the roof running down the wall inside the house, abutting the nahanis on the different stories, and joining a pipe drain laid under the floor which, sloping towards the back of the houses, discharges on the surface of the back gullies into an open channel and from thence to the street sewer. The continuous pipe gives off a branch to each "nahani," terminating into the "moree hole," the hole to be covered with a closely barred grating. In case the level of the gully does not admit of sufficient slope being given to the pipe drain under the ground floor, that pipe should be made to slope along the wall

towards, and discharge the sullage on the surface of the back gully, and the level of the "morees" on the ground floor will have to be raised to allow of their draining into the pipe drain.

A thin stone slab, attached to a chain, should be provided for covering the "moree" hole.

That a running siphon with a small catchpit (as in the model shown by Mr. James) to intercept such solids from the gully as would cause chokes, be placed between the street sewer, and any arrangement that may be made to carry the sullage from the end of the down-take pipe.

On the motion of Thomas Blaney, Esq., it was agreed that the consideration of this proposal be also postponed until the next meeting.

At this stage the meeting adjourned until Friday, the 5th proximo, at 3 P.M.

BOMBAY, *5th October* 1894.

AT the meeting of the Committee called for this day, there were present :—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman ; Bhalchandra K. Bhatawadekar, Esq. ; Thomas Blaney, Esq., C.I.E. ; D. A. D'Monte, Esq. ; Nanabhai N. Katrak, Esq. ; and the Secretary.

Messrs. John Hewson and John Wallace were also present.

After having waited for one hour, and no quorum being in attendance, the Chairman adjourned the meeting until Friday, the 12th instant, at 3 p.m.

It was agreed that in the next notice convening the meeting of the Committee, the Secretary should state that this meeting was adjourned for want of quorum.

BOMBAY, *12th October* 1894.

AT the meeting of the Committee, held this day, there were present :—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman ; Ardasir D. Mody, Esq. ; Bhalchandra K. Bhatawadekar, Esq. ; Thomas Blaney, Esq., C.I.E. ; Cowasji Pestonji, Esq. ; D. A. D'Monte, Esq. ; Fardunji N. Bisni, Esq. ; Nanabhai N. Katrak, Esq. ; Accacio G. Viegas, Esq. ;

Surgeon Lieutenant-Colonel T. S. Weir, Acting Commissioner ; the Drainage Engineer on Special Duty ; and the Secretary.

J. Hewson, Esq., and D. Gostling, Esq., were also present.

The minutes of the meeting held on the 28th ultimo, and the record of the meeting called for the 5th instant were signed.

Read letter from Messrs. Kemp & Co., dated 4th October 1894, as follows :—

The Chairman, House Connections Committee,
Bombay Municipality.

DEAR SIR,—I desire to bring to the notice of your Committee that the house connections of the Fort premises of Kemp and

Company, Limited, are more or less a continued source of nuisance. The stenches arise from the break of joint between the end of the down-take pipe and the catch-pit into which the sewage from above is discharged. There are six down-take pipes in the arcade of the building, and as the stenches are discharged into this arcade they are a nuisance to the public who use the covered passage and a danger to the health of my employés.

Several medical gentlemen, who are frequent visitors to our Fort premises, have complained to me of the nuisance, and have advised me to take legal action to remove or abate the nuisance.

I would feel obliged if the Committee would visit the premises and ascertain for themselves the insanitary infliction of the imperfect system of the house connection on these premises.

Awaiting the favor of a reply,—I remain, &c.,

J. BRISTED, General Manager.

Resolved: "That Messrs. Kemp & Co. be informed that the Committee have resolved to visit the premises in question."

Read and *recorded* the following :—

No. S. D. 1222 OF 1894-95.

BOMBAY, 28*th September* 1894.

TO THE COMMISSIONER.

SIR,—With reference to your No. 14460, dated 25th September, I have the honour to state that the Drainage Engineer under his $\frac{\text{No. D. 4523}}{18\text{-}9\text{-}94.}$ furnished you with the cost of glass-lined sewerage pipes. (2.) I do not recommend the adoption of them because I consider the advantage of using them would not be commensurate with the heavy cost. (3.) I have no experience on which to found an opinion as to the probable period of their duration, but seeing that the glass lining does not cover the whole of the iron, I consider that rust would probably in a short time split and throw off the glass-lining and the pipes would then be no better than ordinary—C. I. pipes. (4.) Two specimens of down-take pipes were taken down some time back for the information of the House Drainage Connection Committee. (5.) The pipes are labelled, and from them it will be seen that one pipe was in use about 12 months, and was cleaned every alternate day during a period of 10 days before removal, and that the other was in use about 12 months, and has not been cleaned. (6.) Having received your letter now under reply only on Wednesday, the 26th, I have not yet had time to ascertain the lengths of sewers, laid down from year to year, since the introduction of the sewerage system by Mr. Walton.—I have, &c.,

JAMES W. SMITH,
Special Drainage Engineer.

APPENDICES.

No. 15004 of 1894-95.

Forwarded to the Municipal Secretary in reference to his No. 7044 of the 22nd ultimo.

T. S. WEIR,
Acting Municipal Commissioner.

1*st October* 1894.

Read the following :—

No. 4946 OF 1894-95.

BOMBAY, 4*th October* 1894.

TO THE COMMISSIONER.

SIR,—Referring to your No. $\frac{14998}{1\text{-}10\text{-}94}$, I have the honor to forward the accompanying statement marked $\frac{S.A.}{49102}$, showing the rates which I have ascertained for down-take pipes of—

(*a*) Glass-lined Cast Iron ;
(*b*) Enamelled do. ; *and*
(*c*) Ordinary do.

2. It will be seen that although the enamelled cast-iron pipes are somewhat cheaper than glass-lined, yet enamelled branches and bends are dearer than those which are glass-lined.

3. Taking the rates altogether, the difference between enamelled pipes and ordinary cast-iron pipes is as striking as that between the latter and glass-lined pipes.

4. I have no experience of the durability of enamelled pipes, but in a sample which I have obtained the enamelling is exceedingly well done, and if pipes and special fittings be used just as turned out from the factory, and particular care be taken in fixing them in position, and in cleaning them when required, I think they will be somewhat more durable than ordinary cast-iron pipes.

5. In practice, however, it would very frequently be necessary to cut pipes to suit the exact position required, and in that case the enamel would probably chip off irregularly, and give rise to a process of rusting behind the enamel which would ultimately throw the whole of the enamel off.—I have, &c.,

JAMES W. SMITH, M. INST. C. E.,
Acting Drainage Engineer.

No. 15851 OF 1894-95.

Forwarded to the Municipal Secretary for the information of the House Connection Committee in reference to his No. 7129 of the 29th ultimo.

T. S. WEIR,
Acting Municipal Commissioner.

10*th October* 1894.

S. A.—49102.

STATEMENT showing a comparison of rates for (*a*) Glass-lined Cast-Iron pipes, (*b*) Enamelled pipes, and (*c*) Ordinary Cast-Iron pipes for House Drainage fittings :—

Particulars.	Rates.			Per
	Glass-lined Cast-Iron.	Enamelled Cast-Iron.	Ordinary Cast-Iron.	
	Rs. a. p.	Rs. a. p.	Rs. a. p.	
4″ Pipes	4 8 6	3 12 0	1 2 0	Yard run.
3½″ do.	4 1 6	3 6 0	1 0 0	do.
3″ do.	3 10 0	3 3 0	0 14 0	do.
4″ Branches	5 5 0	5 14 0	0 0 0	Each.
3½″ do.	4 15 0	5 12 0	0 0 0	do.
3″ do.	4 7 4	5 8 0	0 0 0	do.
4″ Bends	3 15 0	5 4 0	1 10 0	do.
3½″ do.	3 10 0	5 0 0	1 6 0	do.
3″ do.	3 1 6	4 14 0	1 2 0	do.

On the motion of Thomas Blaney, Esq., it was *resolved* : " That letter from Mr. Smith as above be *recorded* and considered when the question of down-take pipes is under discussion."

Read the following letter from Mr. Hewson (with a plan attached) :—

11*th October* 1894.

H. W. BARROW, ESQ.,

Secretary, House Connection Drainage Committee.

SIR,—I have the honour to inform the Committee that several of the Hindu tenants residing in house No. 258-266, Bazar Gate Street, object to the sweeper entering the house to clear the catch-pit of solids. The Health Officer by his report, dated the 23rd October 1893, objects to the catch-pit being inside the building. The Managing Trustee of the property is willing to lay a 6″ stoneware pipe to carry the sullage to the street and flush the same by a 30-gallon automatic flushing tank fixed in the vent shaft, if the Municipality will at their cost build an intercepting chamber in the street fitted with a cast-iron air-tight cover, and connect the same to the sewer. The accompanying plan and section show the proposed alteration. It will be seen that there is no trap to the house drain, and consequently no obstruction to solids and that the house drain is completely cut off from the sewer so that no sewer gas can enter the building. I have to request that you will kindly arrange with the Commissioner for these alterations to be made as the same is of most vital

importance to party wall houses. I would also bring to the notice of the Committee that I specified that spring taps should be used for flushing the closets, and that stop cocks have been fixed, these are of no use as the tenants will not close them. With the Committee's permission, I propose removing the same, and flush each closet pan by a 3-gallon automatic flushing tank.—I have, &c., JOHN HEWSON, A.M.I.C.E.

Resolved: "That the Committee recommend the Acting Commissioner to allow the owner of premises No. 258-266, Bazar Gate Street, to carry out at his own cost Mr. Hewson's proposal for intercepting chamber as stated in Mr. Hewson's letter, dated 11th instant.

"That Mr. Hewson be informed that the Committee will visit this work when it is completed."

Read the following:— 11*th October* 1894.

H. W. BARROW, ESQ.,

Secretary, House Connection Drainage Committee.

SIR,—I have the honour to bring to the notice of the Committee that the whole of the copper connections passing the soil from the 5 privies in Mint Road to the sewer have been stolen. I am replacing the same now with cast-iron pipes and connecting the 5 privies in Mody Street in the same way. The Health Officer in reporting on this system says, he found a lodgment of soil in the pipe. With the Committee's permission I propose fitting a 5-gallon automatic flushing tank to the ground floor privy in Mody Street and Mint Road. I have to request that the Committee may be pleased to inspect these alterations before drafting their report as it is of most vital importance that the night-soil should pass direct into the sewer.—I have, &c.,

JOHN HEWSON.

Resolved: "That Mr. Hewson's letter as above be *recorded* and that he be asked to inform the Committee when the new fittings are completed."

Read the following:—

No. S. D. 1284 OF 1894-95.

BOMBAY, 4*th October* 1894.

TO THE MUNICIPAL COMMISSIONER.

SIR,—In continuation of this office No. $\frac{\text{S. D. } 1222}{28\text{-}9\text{-}94}$, I have the honour to forward herewith three statements, marked $\frac{A}{410}$, $\frac{B}{410}$, and $\frac{C}{410}$, showing, respectively, the length of masonry sewers, pipe sewers and house branches laid from year to year since the introduction of the sewerage system by Mr. Walton.—I have, &c., JAMES W. SMITH.

No. 15502 OF 1894-95.

Forwarded to the Municipal Secretary in continuation of this office No. 15004 of the 1st instant.

T. S. WEIR, Acting Municipal Commissioner.

5*th October* 1894.

Masonry Sewers.

	Work.	1880 R. ft.	1881 R. ft.	1882 R. ft.	1883 R. ft.	1884 R. ft.	1885 R. ft.	1886 R. ft.	1887 R. ft.	Total R. ft.	
1	Main Sewer	16,869	5,571	.....	.....	.....	.....	.....	.....	22,440	
2	Double barrel Masonry outfall sewer, including 36" C. I. pipes...	2,060	770	.....	.....	.....	.....	.....	.....	2,830	
3	Clerk Road Ovoid Sewer	.....	.....	2,402	182	.....	.....	.....	.....	2,584	
4	Extension of Clerk Road Ovoid Sewer	.....	.....	.....	.....	2,168	369	.....	.....	2,537	
5	Queen's Road Ovoid Sewer ...	.....	.....	2,230	1,500	5,180	.....	.....	.....	8,910	
6	Kamatipura Ovoid Sewer	.....	.....	2,036	.....	.....	.....	.....	.....	2,036	
7	Hornby Road and Town Hall Ovoid Sewer	.....	.....	.....	.....	3,185	1,551	1,208	100	6,044	
8	Ripon Road Ovoid Sewer	.....	.....	.....	.....	3,188	1,900	.....	.....	5,088	
		18,929	6,341	6,668	1,682	13,721	6,820	1,208	100	52,469	=9·94 miles.

B
410

Year.	Pipe Sewers.				Total length in each year.
	18″	15″	12″	9″	
					Feet run.
1880	...	...	7,454	34,363	41,817
1881	...	...	7,568	29,953	37,521
1882	...	...	5,108	16,793	21,901
1883	...	...	...	334	334
1884	11,102	6,042	5,841	8,368	31,353
1885	2,709	459	4,793	17,793	25,754
1886	185	3,408	2,063	24,089	29,745
1887	911	68	1,563	2,135	4,677
1888	...	16	10,331	34,313	44,660
1889	...	...	1,227	6,110	7,337
1890	...	...	...	39	39
1891	...	...	79	7,535	7,614
1892	...	...	...	3,792	3,792
1893	...	...	...	...	...
	14,907	9,993	46,027	185,617	256,544 .48·59 miles.

C
410

Year.	Branches laid by the Municipality from houses to public drains.		Total length in each year.	
	6″	4″		
			Feet run.	
1880	5,738	.....	5,738	
1881	3,614	.....	3,614	
1882	23,816	6,203	30,019	
1883	7,408	1,677	9,085	
1884	6,896	1,791	8,687	
1885	1,064	.....	1,064	
1886	1,607	381	1,988	
1887	28,774	13,571	42,345	
1888	9,820	2,837	12,657	
1889	71,493	28,483	99,976	
1890	67,182	27,995	95,177	
1891	123,629	42,181	165,810	
1892	83,722	24,339	108,061	
1893	1,358	.....	1,358	
	4,36,121	1,49,458	5,85,579	= 110·91 miles

Resolved: "That letter No. $\frac{S.D.}{1284}$, dated 4th October 1894, with accompaniments, from the Drainage Engineer on special duty, be *recorded* on the minutes of this day's meeting."

Considered again Mr. Nanabhai N. Katrak's proposal for down-take pipes (as per page 193 of the printed proceedings).

After discussion the proposal of Mr. Nanabhai N. Katrak was *carried* as follows :—

DOWN-TAKE PIPES.

Houses with side gullies and with or without back gullies.

"Under this head the arrangement should be as follows :—(1) A continuous pipe, open at both ends, extending from above the roof, running down the outside of the wall abutting "nahnies" on each storey, and terminating within a few inches above the surface of the gully, the sullage to be discharged into a branch channel joining a central channel as shown in the red model. The continuous pipe gives off a branch, going into each "nahni," which terminates at the "moree" hole, the hole being covered with a perforated plate, or closely barred grating, with a total area of perforations equal to at least half the area of the pipe. A thin stone slab, attached to a chain, should be provided for covering the "moree" hole. That the diameter of the pipe be not less than 3 inches."

"(2) Beginning from the "nahni" a perforated plate, containing a number of holes, about 3-8 or ½ inch in diameter, from which a pipe falls, discharging into a cistern head on the down-take pipe, covered with a plate of iron; from this a down-take pipe 4 inches in diameter, and terminating within a few inches of the surface of the gully, discharges the sullage into a branch channel, joining the central channel on the surface of the gully as shown in the red model. The pipe from the "nahni" to have a slit ½ an inch wide on its upper part. The down-take pipe from the upper stories should traverse the covering plate on the cistern head. The cistern head should be sufficiently large to accommodate the pipe from the "nahni" and down-take pipe from above and to prevent the sullage from overflowing."

A thin stone slab, attached to a chain, should be provided for covering the "moree" hole.

Either of these proposals may be adopted by the Drainage Engineer at his discretion.

Considered again Mr. Nanabhai N. Katrak's proposal regarding the arrangement for party wall houses with back gullies only, as per page 193 of the printed proceedings.

After discussion the consideration of this proposal was postponed until next meeting.

The Committee then adjourned to Friday, the 19th instant, at 3 P. M.

BOMBAY, 19*th October* 1894.

AT the Meeting of the Committee called for this day, there were present :—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman ; Bhalchandra K. Bhatawadekar, Esq. ; Thomas Blaney, Esq., C.I.E. ; D. A. D'Monte, Esq., M.D. ; Nanabhai N. Kantrak, Esq.

The Secretary.

John Wallace, Esq., was also present.

The Committee, after waiting till 4 o'clock P.M., adjourned for want of quorum to Friday, the 26th instant, at 3 P.M. The Secretary was requested in sending out the next summons of meeting, to notify that the Committee was again adjourned for want of quorum.

BOMBAY, 26*th October* 1894.

At the Meeting to the Committee held this day, there were present :—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman ; Ardasir D. Mody, Esq. ; Bhalchandra K. Bhatawadekar, Esq. ; Thomas Blaney, Esq., C.I.E. ; D. A. D'Monte, Esq. ; Fardunji N. Bisni, Esq. ; Nanabhai N. Katrak, Esq. ; Accacio G. Viegas, Esq. ; Surgeon-Lieut.-Col. T. S. Weir, Acting Commissioner ; the Drainage Engineer on Special Duty ; and the Secretary.

D. Gostling, Esq., and John Wallace, Esq., were also present.

The record of the Meeting called for the 19th instant, was signed.

Read the following :—

22nd October 1894.

H. W. BARROW, Esq.,
Municipal Secretary, Bombay.

SIR,—I regret I cannot continue to be a member of the House Connections Committee of the Corporation, and I shall thank you to remove my name from the same.—Yours faithfully,

K. N. BAHADHURJI, M.D.

Considerd Resolution of the Standing Committee as under :—

No. 7997. That the following be referred to the House Connections Committee, and that they be requested to favor the Standing Committee with their opinion as to which, if either, of the two proposals should be adopted.

Letter No. 16597, dated 18th instant, from the Acting Commissioner to the Secretary, on the subject of house connections of houses at Parel.

Proposed by Bhalchandra K. Bhatawadekar, Esq., seconded by Ardasir D. Mody, Esq.—

"That the Standing Committee be informed that this Committee are still engaged in considering their report, and that as soon as they have agreed on the general principles regarding house connections, they will be in a position to express an opinion on the matter referred to in the Standing Committee's Resolution No. 7997, dated 24th instant."

Carried.

Proposed by Nanabhai N. Katrak, Esq.—

Houses without any side and back gullies, but with roads in front and behind.

"That the sullage from such houses be conveyed (where possible) to an open space existing or to be created around or by the side of the privy from whence it be conveyed to the boundary of the premises by an open channel. On leaving the boundary of the premises, the sewage to be carried through a pipe drain to the street sewer. The arrangement of the down-take pipes to be the same as in party wall houses with back gullies only."

"In cases of chawl buildings, open channels should be constructed on one or both sides of such chawls; each block to be treated, as regards the arrangement of the down-take pipes, as a house with back gully 'only,' if the open channel be on the back part only. If the open channel be on both sides, the down-take pipes to be similar to those of houses with side gullies."

Carried (with one dissentient).

Proposed by Nanabhai N. Katrak, Esq.—

Houses without any side or back gullies, but with roads on three or all sides.

In such houses, the arrangement of the down-take pipes to be the same as in houses, with side gullies; but instead of discharging the sullage on the road, the down-take pipes to be joined to an inclined pipe, running along the wall on the outside, which should be made to discharge the sullage, if possible, on the open space, existing, or to be created around or by the side of the privy from whence it be conveyed from the premises through a running siphon into the street sewer.

2. In cases where it is not possible to secure any open space, in or near the privy, the inclined pipe to be joined to the street sewer through the interposition of a trap placed under-ground in the street, and each down-take pipe to discharge the sullage into a cistern head joined to a siphon connected with such inclined pipe just high enough from the ground so that a man standing on the road can easily clean it.

It was decided to postpone the further consideration of this proposal until the next meeting.

The meeting adjourned to Friday the 9th November 1894, at 3 P.M.

BOMBAY, *9th November* 1894.

AT the meeting of the Committee called for this day, there were present :—

The Hon'ble Mr. Javerilal U. Yajnik, chairman ; Bhalchandra K. Bhatawadekar, Esq.; D. A. D'Monte, Esq.; Fardunji N. Bisni, Esq.; and Nanabhai N. Katrak, Esq.

Surgeon-Lieutenant Colonel T. S. Weir, Acting Commissioner, the Drainage Engineer, and the Secretary.

John Wallace, Esq., was also present.

The following letter to the Secretary, dated this day, was received from Thomas Blaney, Esq. :—

H. W. BARROW, Esq., Secretary,

Municipal Corporation.

SIR,—Urgent and unexpected professional duty prevents me attending to-day's meeting of the House Connections Committee.—I am, Sir, yours sincerely,

THOMAS BLANEY.

The members present, having waited for an hour, and no quorum being formed adjourned.

The Chairman fixed the next meeting for Thursday, the 15th instant, after the conclusion of the business of the Corporation meeting.

BOMBAY, *15th November* 1894.

AT the meeting of the Committee held this day, there were present :—

Ardasir D. Mody, Esq., Bhalchandra K. Bhatawadekar, Esq., Thomas Blaney, Esq., Cowasjee Pestonjee, Esq., D. A. D'Monte, Esq., Fardunji N. Bisni, Esq., Moreshwar Gopal Deshmukh, Esq., Nanabhai N. Katrak, Esq.

Surgeon-Lieutenant-Colonel T. S. Weir, Acting Commissioner, the Drainage Engineer on Special Duty, the Drainage Engineer, and the Secretary.

Messrs. D. Gostling and John Wallace were also present.

In the absence of the Chairman, Thomas Blaney, Esq., was voted to the chair.

The minutes of the meeting held on the 26th ultimo and the record of the 9th instant were signed.

Read letter from Mr. Gostling, dated 8th instant, asking that the Committee will experiment upon and discuss the model of his combined sink-urinal, kachra ejector and water channel, also asking the Committee to fix a time for inspecting the considerable alterations he has made in his surface gutter, underground sewer, at Vithulwady.

Resolved : " That Mr. Gostling be informed that the Committee are not yet in a position to make the inspections referred to by him."

On the motion of Mr. Nanabhai N. Katrak, the following Resolutions were *carried* :—

" *(a) Houses without gully at side or back but with roads on three sides or all around.*

" The arrangement of the down-take pipes to be the same as in houses with side gullies, but the foot of each down-take pipe to be connected to an inclined pipe sloped as steeply as convenient attached to the outside of the wall and made to discharge on to the open space if any, around or at the side of the privy, in which open space a channel shall be formed sloping down and discharing into a running siphon or a gully trap underground and a pipe drain in connection with the street sewer.

"If there is no open space and none can be made,each down-take pipe and the branch pipe from the lowest nahani shall discharge into a cistern head attached to a wall siphon connected to a vertical pipe running upwards above the roof and downwards to an inclined pipe as above described. The inclined pipe shall discharge in the most convenient way into an underground trap and pipe drain in connection with the street sewer. If the cistern heads as above arranged be too high for a man standing on the road to conveniently clean it and the wall siphon, an additional cistern head shall be fixed at a convenient height for the purpose, the wall siphon being fixed immediately below the additional cistern head."

(*b*) " That jump weirs be constructed to carry off rain-water falling on the gullies, to lead the same into the storm-water drains."

(*c*) " Flushing arrangements.

" That the side and back gullies be flushed at necessary intervals by means of the arrangement suggested by the Drainage Engineer in paras. 3 and 4 of his No. D-9514 *a* of 1893-94, dated 30th March 1894, or by the flushing engine now in use in the Health Department.

"That open spaces on the ground floors of houses be flushed by an automatic flusher discharging once in 24 hours."

(*d*) "That all inclined pipes inside and outside houses, underground floors or supported against walls be provided with means of being examined and flushed cleaned.

(*e*) "That wall siphons have been found, after 15 years of experience, to be unsuited for down-take pipes in Bombay, and that therefore their use be abandoned in future as much as possible."

(*f*) "*Vent pipes and ventilation of sewers.*

"There should be a vent pipe attached to the street end of each running siphon and one to the lower or street end of each wall siphon, wherever they are put up.

"Each vent pipe to be simply a continuous pipe open at the top."

(*g*) "That running siphons be provided at the end of gullies and open spaces in houses, according to the plan of a diaphragm chamber, submitted by the Special Drainage Engineer, Mr. Smith, or the model prepared by the Drainage Engineer, Mr. James, at discretion."

The Committee then adjourned to Monday, the 19th instant, at 5 p.m.

BOMBAY, *19th November* 1894.

AT the meeting of the Committee held this day, there were present :—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman; Ardasir D. Mody, Esq.; Bhalchandra K. Bhatawadekar, Esq.; Thomas Blaney, Esq., C.I.E.; Cowasji Pestonji, Esq.; D. A. D'Monte, Esq., M.D.; Fardunji N. Bisni, Esq.; Nanabhai N. Katrak, Esq.

The Health Officer; the Drainage Engineer on Special Duty; the Drainage Engineer; and the Secretary. The Superintendent of Buildings, 1st Division, were also present.

The minutes of the meeting held on the 15th instant, were signed.

Considered the following :—

No. 26077 OF 1894-95.

BOMBAY, *8th November* 1894.

TO THE COMMISSIONER.

With reference to para. 1 of letter No. 6991 of 1894-95 from the Municipal Secretary, I have the honor to state that the temperature shown in the return submitted with this Office, No. 13524 of 11th September 1894, was temperature of the sewage-air in the sewers. Observations taken at Queen's Road sewer and the Falkland Road sewer were of the air in those sewers. I

also submit herewith replies to queries at the concluding part of the Municipal Secretary's letter. The replies are given *seriatim* under each question.

Influences which determine the direction and velocity of the current of the air in the sewers.

These influences may be classed under two principal heads, *viz.*, the external and the internal. The external influences are climatic and atmospheric. The internal influences include a consideration of several conditions, as for instance (1) the quality and quantity of the contents of the sewer, both solid and liquid ; (2) the heat of the sewer contents as affected by the processes of putrefaction or the introduction of hot substances ; (3) the force of ebb and flow of sewage or its velocity ; (4) the nature of the fall of the sewer contents ; (5) the quantity of vapours or gas produced in sewers ; (6) the absence or presence of ventilators ; (7) addition of rain and storm water ; its quantity and the rapidity with which such water enters the sewers ; (8) form of sewers, sewer material, friction, leakage, and the clogged condition of sewers ; all these more or less affect the direction and velocity of the currents of the air in the sewers. Of the external influences, the climatic are the most varied. The temperature of a sewer varies in the different seasons of the year ; the seasons cause a difference of temperature between the external atmosphere and the internal air, and constantly lead to currents in or out of the sewer. Barometric pressure changes also affect the direction and velocity of sewer air currents. Moisture in the air without the sewer affects the inner currents.

(1.) The quality and quantity of the sewer contents. A full sewer discharges quicker than one which is comparatively empty. It will consequently suck in more atmospheric air. The velocity on the surface of the water in a sewer is greater than at the bottom ; this also will affect the current of air. (2.) Heat is one of the most powerful agents at work within a sewer. It develops a force which is perfectly irresistible in every unventilated sewer system. The air of every sewer undergoes expansion and contraction from the admittance of hot or cold air into the sewer. Introduction of hot substances materially increases the heat inside a sewer ; so does the heat generated by the decomposition of organic substances in the sewer, especially when the sewer contents move slowly from a defective gradient, or from any obstruction caused by the deposit of heavy substances at the lowermost part or base of the sewer. (3.) It is desirable to create a downward flow of sewer contents to the outlet. This will secure an equally downward flow of air towards the outlet, thus tending to draw the gases from the houses with the sewer contents. Practically these columns consist of two columns of air of different temperatures, and there-

fore of different weights, which imperceptibly mingle within the sewers. The outer air enters at several points; its temperature and amount of moisture are altered, and it then leaves as sewer gas. (4.) Sewers discharging into the sea are liable to be tide-locked twice in 24 hours. When during the tide-lock period, the sewer contents move on at a slower speed, if they are not altogether stationary, sewer gases and sewer air will be forced back in the direction of house connections, especially where the sewers contain readily decomposing matter or substances which have already undergone decomposition. There is one point to observe, however, that on account of the gradual rise of the tide, there is an equally gradual and equable displacement of sewer air by the air from the sea side. If, therefore, drain traps are in perfect working order, there is no chance of sewer air being forced into house drains. Violent sea gales, however, prevailing in the direction of the sea side sewer openings might force sewer gas in the direction of the house-drains. It is to counteract this evil, occasional though it be, that sewer-openings into the sea direct should have trap-protections. The condition of the outfall is worthy of the first and foremost consideration, not only in the out-riddance of the sewer contents, but also in its conditions as regards decomposition and onward flow through the sewer canal. (5.) Abundance of organic matter and excremental matters are changed into gaseous products, such as ammonia, hydrogen, sulphide, sulphurous acid, carbondioxide. The generation of these gases produces a retarding effect on the ingress of air into sewers. The greater the quantity of gases so generated, and the quicker the process of generation, the lesser will be the quantity of air that will rush in, and the lesser will be the velocity of the in-rushing air. There are some organic substances which must first decay before they can be oxidized; such substances add to the quantity of gases resulting from the decomposition of substances already existing in the sewers. Absence of air where there is abundance of organic matter causes putrefaction. Mere entrance of air into sewers is not enough to stop completely the process of putrefaction. For air to accomplish this purpose, it is necessary that there should be no stagnation in the sewer. Its contents must be in a flowing or "current" state, so that every moving part of the sewer contents, whether solid or liquid, is brought into contact with the in-coming air, thereby to prevent in its particles the process of putrefaction. Such actively engaged air has the further advantage of oxidizing organic substances which are already in the state of decay or putrefaction; it helps to convert sulphurous acid gas into sulphuric acid; it enables the sewer contents to be mixed with a large quantity of oxygen, which may rise, says Banmeister, to eight or ten times the original contents. Other

experiments show, says he, that the oxygen of the ærated sewer contents gradually disappear, while the carbon dioxide proportionately increases. Ammonia, he further adds, will sometimes be directly oxidized without the presence of Bacteria in certain cases. (6.) The object of sewer ventilation is to equalize the pressure inside and outside the sewer, although it is not always possible to obtain a perfect equilibrium for obvious reasons. (7.) Addition of rain and storm water produces a quicker flow of the sewage contents. There is consequently a rush of air into the sewers. After a storm the flow in sewers begins to increase and continues for some time after the rain or storm has ceased. It is well known that air will flow into a vacuum with a velocity equal to that which a heavy body acquires in falling a distance equal to the height of the atmospheric column which, represented numerically, would be 1,330 feet per second. (8.) The form of sewers, and the material of which they are made, friction, leakage and the clogged condition of sewers may be classed under one head. The clogged condition of pipes and sewers is due to deposits of road detritus, mud and other substances which generally find entry into sewers. The habits of the people in a great measure determine the contents of sewers in India as will be shown later on. Egg-shaped sewers have a tendency to expel their contents with increased velocity as compared with other forms. There is consequently in them a constant renewal of fresh air. In sewer with circular forms the rush of air is less, there being less fluctuation of the height of the surface of the sewage flow.

II. Influence of the wind on the direction and velocity of the currents of air in the sewers.

Wind blowing over the surface of the ventilators in a street has a material effect in changing the currents of air within the sewers. The position of the sewer-outfall, in reference to its exposure to the prevailing wind, also affects the currents of air in the sewers. If a sewer-outfall is exposed to the prevailing wind rapid currents of air are generated in the sewers. When the prevailing wind is violent and allows air to rush in volumes, these currents, produced in the sewers, find an exit so quickly through ventilators as to be perfectly uncontrollable presuming that the sewers are ventilated. Violent winds rushing through the outfall-openings set up reverse currents which drive the sewer-air in the direction of the house-connections, and the intervening ventilating shafts and manholes.

III. Influences which determine the production of gases in the sewers.

The nature of the contents of the sewer materially influences the production of sewer-gases. Thus, for instance, vegetable

substances which form by far the largest part of Indian sewers, ashes, cowdung, and other organic matters of animal origin such as urine, human fæces and other excrements are powerful and constant agents in the production of gases in our sewers. There are some organic substances, particularly those of vegetable origin, which must first decay before they can be oxidized or brought under the influence of the atmospheric inrush provided for by ventilators and ventilating shafts. Such substances add to the quantity of gases resulting from the more ready or rapid decomposition of excretal organic matter of purely animal origin, such as urine and fæces.

IV. Influences which regulate the pressure of gases and tensions of air in the sewers.

The tension of air in main sewers is seldom very different from that of the external air. Should there be much difference, the equilibrium is quickly restored where sewers are ventilated in some form or other. Thus ventilators, manholes and ventilating shafts are the most important agents in regulating the pressure of gases and tension of air in the sewers. When the tension is less in the sewer than in the external air, the external air has a tendency to rush into the sewer. In some sewers, excess of pressure in the sewers from sewer-gas leads to a current up the ventilators out into the surrounding atmosphere. In this respect ventilators, manholes and ventilating shafts perform a dual function, *viz.*, that they may serve as inlets for fresh air; or as outlets for foul air, according to the condition and the composition of the contents of the sewers. The sewer air is very irregular in its movements, it being entirely dependent on the localization of the contents of the sewers, as also on the various stages of their disorganization, decomposition or putrefaction.

The sewer air should always be in constant connection with the surrounding atmosphere, in order that the foul gases in the former may escape into the latter, and relays of fresh air-currents from the latter may enter the sewers. Fluctuations in the barometric pressure affect the tension of air in the sewers. Increased barometric pressure enables sewer-air to carry a large amount of watery vapour from its liquid portions. Decreased barometric pressure on the other hand leads to the escape of gases stored in the interstices of the sewer-contents. Decomposition is thus favoured; as a consequence less atmospheric air enters the sewers. Watery vapour gives lightness to the air in the sewer, thus materially affecting the density of the air. Laws of gravitation govern sewer-air as much as any object in nature. Currents are invariably produced by the difference in pressure or weight of different columns of air. Sudden variations in the temperature of the surrounding atmosphere produce variations in pressure of the sewer-air. A high temperature favours de-

composition of the sewer-contents, and in consequence, evolution of gases. That air loses in weight when heated is a well known physical fact. The flow of the contents of the sewer also affects the tension of gases in it. The more rapid the flow, the larger is the vacuum produced; the quicker is the in-rush of air in consequence. If the contents of the sewer are not stagnant, that is to say, if the flow is good and the sewer is properly flushed, there is no time left for any deposit or the subsequent putrefaction or even decomposition of its organic contents. The generation of foul gases, indeed any kind of gas, is out of question. Should, however, decomposition have already set in while the sewer-contents are passing through the sewers, the velocity of the in-coming air *i.e.*, air rushing in from external air is reduced, inasmuch as the vacuum that is produced by the onward flow of the sewer-contents is readily filled in by the gases already generated. Diffusion of the various sewer-gases again, modifies the forces at work within a sewer. All gases diffuse themselves through each other, even although they may not chemically combine, but merely form a mechanical mixture. The rapidity of the intermixture of sewer-gases varies with their respective density. That light gases descend and heavy gases ascend under the law of diffusion of gases in definite proportions is one of the well-known physical phenomena. Slime found in sewers is the product of organic degeneration and vegetable growth of the cryptogamic type. This substance lines the sides of sewers and surface of sewer-streams which admit of no flow or which are stagnant. This slime is not merely a surface inhabitant. It also binds the debris in the sewer canals and retards the movement of solid matter as also that of the gases generated in them. When the tension of such gases reaches its highest pitch, the gases escape in bubbles, a phenomenon not uncommon in stagnant sewers. Such gases are amongst the most offensive products and the most dangerous emanations from sewer-contents. In a sewer ending in a *cul de sac* at a high level, sewer-gas rises and presses with some force, showing that there is considerable tension. Houses situated at higher level suffer from such sewers, whereas those on the lower level escape. In sewers where the gradient is steep, foul air tends to pass from the lower to higher levels. This *backward* current can be prevented to a certain extent by means of what is called a *tumbling bay*, and flap valve placed at each combined manhole and ventilator. Under such arrangement the sewage can flow onwards, but the valve prevents anything passing backwards. The air-tight or water-tight condition of sewers also makes a considerable difference in the pressure of gases and t nsion of air in sewers. Brick-built sewers being porous would lead to a diminution in pressure of gases or tension of air; in

pipe sewers the tension of air and pressure of gases would be very great. Constant discharge and intermittent discharge of the sewer-contents also make a considerable difference in the air tension as well as air-entry into sewers. Chlorine, sulphurous acid and other gases introduced into sewers to destroy the noxious properties of sewer-air must be combined through proper ventilation, with atmospheric air, in order that after combination, the resulting products may be discharged; otherwise the air within the sewer would acquire such a degree of tension as to force a passage at some point into the adjacent houses. The ebbing and flowing of sewage contents has a double effect :—(1) Generative and (2) mechanical. (1) The generative effect is thus explained. The ebb and flow of sewer contents leaving the sides of sewers alternately wet and dry (only partially so), naturally lead to the production of much vapour or sewer gas. (2) The mechanical effect is that of compressing or dilating the air present in the sewers. Sudden storms and sudden downpours of rain also modify conditions according to their respective severity. The time of day has also a varying effect on gas and air tension in sewers. Although sewage contents vary from hour to hour, it may be said, as a general rule, that nearly one half of the sewage due to the whole twenty-four hours often flows off within the course of six to eight hours in properly working drains. The variation is mainly caused by varying quantities of water used during the day. In Bombay most of the bathing and principal washing of clothes and utensils is done before noon. The calibre of the sewer is an important condition governing the entry of external air. Air in a small or narrow sewer is liable to undergo greater pressure than the air in a large sewer.

(*V.*) *Effects of the ventilating shaft, pipes and the double chambered ventilators on the air within and without the sewers.*

The ventilating shaft as observed before plays a double part, *viz* :—(*a*) It serves as an inlet for fresh air or (*b*) as an outlet for foul air, according to the condition and contents of the sewers. The same may be said of ventilating pipes. Shafts without furnaces, says Baldwin Latham, would not materially influence the ventilation of sewers, as they would exercise but feeble power in producing currents. He is quite right in this view, for apart from producing a current, furnaces in ventilating shafts would have the further advantage of burning, or at any rate decomposing, the foul emanations from sewers. The difference of temperature between the external atmosphere and the internal air of a sewer is one of the forces at work by which the ventilation of sewers is affected. With regard to the double chambered ventilators it may be observed that the introduction of a vertical charcoal partition between the two chambers of the

ventilator is an immense advantage over the system of horizontally placed charcoal trays under the ventilator lids which were liable to be clogged and which prevented thereby the free discharge of filtered or purified sewer-gas into the streets. The double chamber besides, if properly constructed, would secure another advantage. It would take in road-detritus mud, dried leaves, bits of papers, rags, &c., and find for them a secure hollow, a dust box as it were, and thereby prevent the clogging of the sewer canal itself. A shaft by the side of a manhole may also be called a double chambered arrangement. The sewer air which escapes from manholes readily mixes with the atmospheric air as it escapes the manhole gratings. It is objectionable not so much to pedestrians who can well avoid them as to those who drive in carriages which have often to cross the manhole gratings opening into the streets, not without having to accept a few whiffs of unpleasant gases.

K. R. KIRTIKAR, Acting Health Officer.

No. 18514 of 1894-95.

9th November 1894.

Forwarded to the Municipal Secretary in reference to his Memo. 6991 of the 19th September last.

T. S. WEIR, Acting Commissioner.

Resolved : " That with refererence to the Committee's Resolution of the 14th September last, regarding the temperature of sewers, &c., memorandum No. 18514, dated 9th instant, from the Acting Commissioner, be *recorded* ; the Health Officer having informed the Committee that the data specially applicable to Bombay are neither complete nor existing in such a form as to be collected without great labour and expenditure of time."

On the motion of Nanabhai N. Katrak, Esq., it was—

Resolved : " (1) The Committee consider that the data asked for by the Committee from the Health Officer in their Resolution as above, not being available for Bombay, such information should be collected for future use.

(2.) That the Committee are of opinion that pipe connections in certain localities should be glass lined, and in certain other localities, enamel lined to enable the Corporation to determine the advantages of both.

(3.) That the Committee recommend that brushes be used to clean the inside of down-take pipes where necessary.

Resolved : " That the Committee having arranged to meet at 3 o'clock on Thursday next the 22nd instant, they will be obliged if the Commissioner will arrange for the new steam flushing engine being worked under the Committee's inspection that day, in such gullies as may be selected by the Commissioner."

Resolved: "The Committee strongly recommend that the words of the Municipal Act in Section 348 (1) "on any site previously unbuilt upon" be deleted from that section. This recommendation is made in order to prevent the construction of new houses which have not side gullies."

The Committee then visited the premises of Messrs. Kemp and Co., Church Gate Street, in order to inspect the insanitary condition of the same, accompanied by the Health Officer, the Drainage Engineer, and the Drainage Engineer on Special Duty.

The meeting then adjourned to Thursday the 22nd instant, at 3 P.M.

BOMBAY, *22nd November* 1894.

AT the Meeting of the Committee held this day, there were present:—

The Hon. Mr. Javerilal U. Yajnik, Chairman; Ardasir D Mody, Esq.; Bhalchandra K. Bhatwadekar, Esq.; Thomas Blaney, Esq., C.I.E.; D A. D'Monte, Esq.; Fardunji N. Bisni, Esq.; Nanabhai N. Katrak, Esq.

The Health Officer; the Drainage Engineer on special duty; the Drainage Engineer and the Secretary.

John Wallace, Esq., was also present.

The minutes of the meeting held on 19th instant, were signed.

On the proposal of Thomas Blaney, Esq., it was—

Resolved: "That the Committee are of opinion that the Health Officer and the Drainage Engineer should be associated in all matters of drainage and sewerage, and should act as aids to one another in deciding on all such works, each in his own speciality."

Resolved: "That the Committee are of opinion that the supervision of all house connections, whether outside or inside of houses, should be entrusted to the Health Department and that an efficient and sufficient staff of Inspectors and labourers should be provided for every sewered district. The maintenance and upkeep of the sewers, drains and house connections should, as at present, remain under the supervision of the Drainage Engineer."

Mr. Bhalchandra K. Bhatwadekar, referring to the evidence of Mr. J. W. Smith, as printed on the proceedings of the meeting held on the 8th June 1892, said, that on that occasion Mr. Smith stated that in Agripada, there was a chawl belonging to the Hon'ble Mr. Fazulbhoy Visram in which certain improvements had been made, but when he (Mr. Bhalchandra) visited the spot he found that the improvements were not carried out.

Mr. Smith explained that his remarks on the occasion, referred to by Mr. Bhalchandra, referred to a plan, which he (Mr. Smith) had prepared and which was ready for carrying out.

The Committee, accompained by the officers as above, and Mr. Glover, Acting Assistant Health Officer, and Mr. Hallums, Inspector, proceeded to Bazar Gate Street, where the Committee watched the flushing down of several gulleys by the steam flushing engine. At the conclusion of their inspection, the Committee—

Resolved: "That the Committee find that in their present condition the house gullies are foul with liquid, semi-liquid, and dry sewage, including in the latter, waste food and leaves used for dining and that the condition of most of these gullies cannot but be injurious to public health. They are of opinion that all gullies which are found to contain foul matter should be regularly flushed. In considering the various means which may be used for flushing the gullies, the Committee have arrived at the conclusion that portable steam pumps are the most efficient. The fire engine pump which has been recently used for this purpose by the Health Department, is thoroughly efficient for the work and capable of flushing two gullies at the same time.

"The Committee recommend the immediate adoption of the gully flushing system, by means of steam pumps, for all house gulleys."

The Committee then adjourned.

BOMBAY, 3*rd December* 1894.

AT the Meeting of the Committee held this day, there were present:—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman; Ardasir D. Mody, Esq.; Bhalchandra K. Bhatwadekar, Esq.; Thomas Blaney, Esq., C.I.E.; Cowasji Pestonji, Esq.; D. A. D'Monte, Esq., M.D.; Kaikhosro N. Kabraji, Esq.; and Hon'ble Mr. Perozeshah M. Mehta, C.I.E.

The Health Officer; the Drainage Engineer on special duty; the Drainage Engineer; and the Secretary.

The Minutes of the Meeting held on the 22nd ultimo, were signed.

Resolved: That the arrangement for party wall houses with back gullies only be as follows:—

A continuous pipe, open at the top, extending from above and through the roof running down the wall inside the house abutting the nahanis on the different stories, and joining a pipe-drain laid under the floor which, sloping towards the back of the

houses, discharges on the surface of the back gullies into an open channel and from thence to the street sewer. The continuous pipe gives off a branch to each "nahani," terminating into the "moree hole," the hole to be covered with a closely barred grating. In case the level of the gully does not admit of sufficient slope being given to the pipe-drain under the ground floor, that pipe should be made to slope along the wall towards, and discharge the sullage on the surface of the back gully, and the level of the "morees" on the ground floor will have to be raised to allow of their draining into the pipe-drain.

A thin stone slab, attached to a light chain, should be provided for covering the "moree" hole.

The Meeting then adjourned.

BOMBAY, 10*th December* 1894.

AT the Meeting of the Committee held this day, there were present:—

The Hon'ble Mr. Javerilal U. Yajnik, Chairman; Ardasir D. Mody, Esq.; Bhalchandra K. Bhatawadekar, Esq.; Thomas Blaney, Esq., C. I. E.; D. A. D'Monte, Esq., M. D.; Fardunji N. Bisni, Esq.; Kaikhosro N. Kabraji, Esq.; Accacio G. Viegas, Esq.

The Drainage Engineer and the Secretary.

Messrs. D. Gostling, John Hewson and John Wallace, were also present.

The minutes of the meeting held on the 3rd instant were signed.

The Committee considered their draft report—which had been prepared by Mr. Blaney—and amended it as shown in ink on the printed copy attached hereto.

Resolved: "That the report, as now amended, be adopted and submitted to the Corporation."

Resolved: "That the thanks of the Committee be tendered to Dr. Blaney for his valuable services in drafting their report."

Read the following:—

10*th December* 1894

H. W. BARROW, Esq.,

Secretary, House Drainage Committee.

DEAR SIR,—I. I beg to acknowledge receipt of the Committee's report kindly sent to me for remarks.

2. I submit that the evidence before the Committee conclusivly proves that the only difficulty in house drainage is the sand and ash found in the sullage.

3. The secret of success of house drainage is in separating the saud and ash from the sullage.

4. In para. 27 of report it is stated : "A.—There is no system known by which the earth, sand, ashes and other solid matters used in washing metal pots can be prevented from entering the house drains and sewer pipes." I submit, this is not correct. My system of drainage at Bazaar Gate Street and Mody Street intercepted these solids—the pipe was broken in the centre of the gully in Mody Street and found perfectly clean.

5. Night-soil and urine, the most dangerous form of drainage matter, should not be allowed to flow over the surface of a gully, but passed into a pipe drain and washed through to the sewer by the sullage after the solids have been intercepted.

6. This is what is being done at Mody Street without any fresh water flush, but I am of opinion, as already stated before the Committee, that a small flush to each ground-floor privy would be an advantage. I would point out that the only objection to this system was by the Health Officer as to the position of the catchpit.

7. By this system the whole of the night-soil and urine could be passed direct into the drains at a saving of two lakhs per annum to the Corporation.

8. If the Committee cannot approve of any of the experiments already made, I would suggest that a further grant be obtained from the Corporation to solve the problem of intercepting the solids from the sullage and passing the night-soil and urine direct into the drain, and that such further experiments be made by the Drainage Engineer with the assistance of unofficial experts.—Yours truly,

JOHN HEWSON, A.M.I.C.E.

Resolved : "That the above letter from Mr. J. Hewson be recorded with thanks of the Committee."

Appendix F.

MEMORANDUM

On the proposed improvement of the Victoria Gardens with a view to the formation of a Zoological Garden.

The formation of a Zoological Garden, worthy of the City of Bombay, must necessarily be a matter of gradual development and time. But in order that the work may be taken in hand, and systematically carried out, it is absolutely necessary that a proper and complete scheme should be sketched out at the beginning.

2. Assuming that the principal objects of the proposed Zoological Garden is to provide recreation, instruction, and amusement for all classes of the community, I beg to submit the following suggestions for your Committee's consideration.

3. The Improvement Committee of the Victoria Gardens have fortunately a finely laid out Garden at their disposal, with all the facilities for its adaptation to a Zoological Garden.

4. There is also a nucleus of a zoological collection awaiting development. In order, however, to accomplish this object, attention should, in the first place, be devoted to the acquisition and exhibition of such animals as are characteristic of the fauna of British India, especially those that are easily obtainable in the Presidency of Bombay, and are likely to bear captivity well.

5. Provision should be made for suitably housing the animals.

Preliminary observations in regard to accommodations for animals.

6. It ought to be laid down as a general principle that in providing accommodation for animals, the convenience of visitors should at the same time be consulted as much as possible. It is for them that the animals are exhibited. So that, while the comfort of the animals should be the supreme consideration, it ought to accord *as far as practicable*, with that of the visitors' also.

7. A concrete example will, I venture to hope, make my point clear.

8. The lofty iron cages for tigers, leopards, and bears in the Victoria Gardens, may afford very desirable accommodation for these animals, but from the visitors' point of view, they are defective; in that, they afford no shade or shelter to them from sun and rain.

9. Experience has shewn that a very large proportion of visitors, both European and Indian, visit such institutions during the middle of the day. To all such, a shady promenade affording a good view of the animals is most agreeable. During the rains such promenade are much appreciated.

10. The construction of isolated cages should be avoided on the ground of costliness also. A single large cage will generally cost more than a series of consecutive cages.

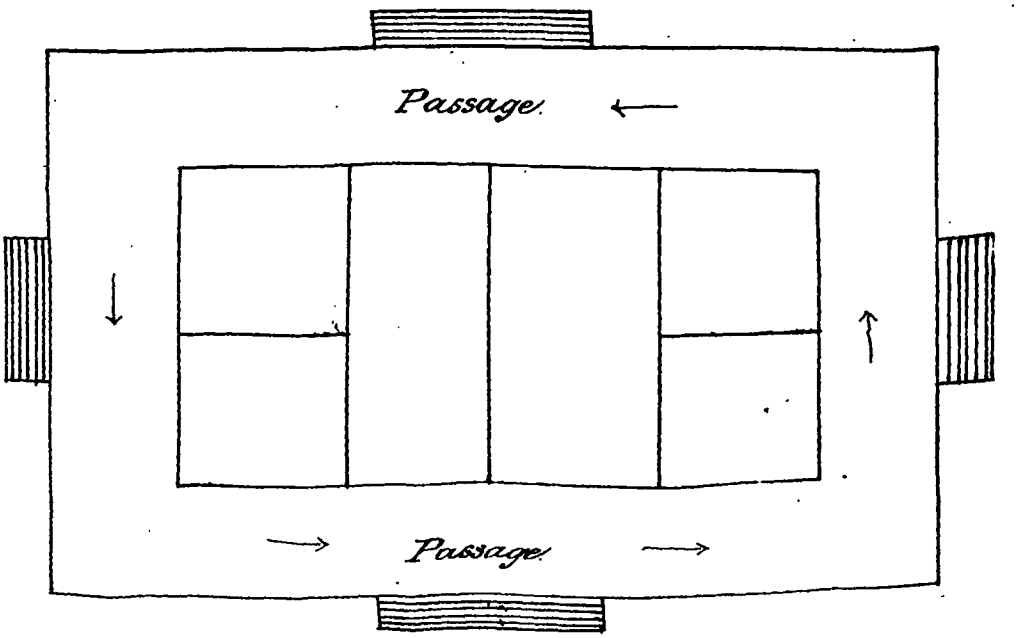
11. Having made these preliminary observations I beg to proceed to the consideration of the accommodation required for particular groups of animals, such as are likely to be acquired and exhibited in the immediate future.

12. These animals constitute an important feature of a zoological collection, and as a great many of them are easily procurable, endeavours should be made to exhibit as many of them as possible. They are, however, much given to fighting when a large number of different species are kept together. Besides, some of them are delicate and timid creatures, and will never thrive in a crowd. Under such circumstances, it is always better to provide separate accommodation for different groups of these animals.

Monkeys.

13. The existing monkey cage in the Victoria Gardens is a picturesque structure, and well suited as a playground or *Gymnasium* for monkeys in fair weather. But for permanently exhibiting a large number of monkeys of different species a proper house must be built; so arranged and adapted as to give its inmates shade during the summer, shelter during the rains, and protection from draughts and cold whenever necessary. The style of house here indicated, with such modifications of detail as local requirements may suggest, will be found, in the end, both economical and practical. It will, moreover, give an idea of a numerous collection to the visitors, as twenty animals displayed in one house produce a better impression than fifty distributed all over a Garden.

MONKEY HOUSE



N.B.—The details regarding the dimensions, ventilation and other matters may be settled when a proper plan is being prepared, and when the amount of money available for building the house is sanctioned or set apart.

14. One or two of the cages should be built much stronger than the rest with a view to accommodate powerful monkeys like a full grown Orangoutang.

Carnivorous Animals.

15. There is no necessity for disturbing the existing arrangement in regard to the housing of the tigers, as they are said to thrive well in their present habitation. But the case is otherwise with the leopards and bears. It is not unlikely that they suffer from the heat. In that case, a light covering of mats ought to be placed over the roof in such a way that the bears or leopards cannot pull them down.

New cage for lions.

16. It is a pity that the new cage for the lions is being built so far away from the group of cages devoted to other carnivorous animals. Grouping of animals, quite apart from any attempt at scientific classification, requires some consideration; even for the sake of convenience of the visitors, as well as for the facilities it is likely to afford in cleaning the cages and feeding the animals.

Risk of escape should be minimised.

17. Generally speaking, the Committee will always have to depend upon a careless and irresponsible set of keepers in the daily management of animals. This being the case, the chances of escape of such dangerous animals as lions, tigers and leopards ought to be reduced to a minimum. But it would be impossible to remedy the defect so long as the existing arrangement of egress and ingress by a side door is allowed to obtain.

What it ought to be.

18. In a properly appointed carnivora house in this country, where trained supervision is a desideratum, there ought to be a man-hole on the roof with a trap door provided with a rope or chain ladder. Ordinarily, this should be the only means of access to the dens, so that, if by chance or carelessness the trap door is left open the risk is much less than in the case of a side door. With a little practice the keepers soon learn to descend and ascend with ease. The back or side door should be used for the purpose of putting in or taking out animals, and its key kept by the Superintendent.

Sufficient walking space for lions and tigers.

19. Among the many deprivations which animals in captivity, especially the larger *Felidæ*, have to endure, the want of exercise is the most depressing. It undermines their health more than anything else. Our best endeavours, however, are of no avail in procuring them that amount of exercise which their habits of life demand. But we can do much to mitigate their suffering by allowing them as much walking space as possible. In this respect the present dens ought to

be improved, especially regard being had to the fact that, during the rains, it may be necessary to keep the animals shut in for a whole week.

20. I may here mention that, wet does no harm to the lion or tiger in the jungle. There, fresh blood and fresh food act as a tonic to their systems, and there possibly, they have to walk twenty miles to procure food; but the case is quite otherwise in captivity. Here, wet may kill them.

Supervision.

21. Besides the keepers ordinarily employed for looking after the carnivorous animals, there ought to be a Jemadar or head-keeper—a pensioned native soldier of a superior grade should be preferred, to supervise and direct the under-keepers. He should be made responsible for the safe custody of the animals, cleanliness, feeding, and everything concerning them.

Drainage.

22. As the stock of animals increases with the development of the menagerie, attention will have to be paid to the drainage of the houses, especially where lions, tigers, civets, and paradoxuri are lodged. The Garden is, however, very fortunately situated in this respect owing to its proximity to the public drain outside the enclosures.

23. It may be stated here that the drainage of the newly acquired portion of the ground will have to be improved and adjusted before any house is built upon it.

Recommendations.

24. Having noticed some of the essential requisites of a proper carnivora house, I beg to submit the following recommendations for the consideration of the Committee:—

(*a*) That a substantial building be erected for the accommodation of the larger carnivorous animals consisting of a pair of each of the following animals: Lion, tiger, leopard, black leopard, jaguar, puma, &c.

(*b*) That it should consist of about eight sets of dens with a verandah in front, and an exercise yard behind.

(*c*) That the present series of beautiful iron cages be utilized for the purpose of building this exercise yard for which they are admirably adapted in every way.

25. I may be allowed to mention in this connection, that no carnivora house can be said to be complete or efficient without such an arrangement; and in this respect the Victoria Garden is very fortunately situated, having a series of excellent cages ready for use.

Aviary.

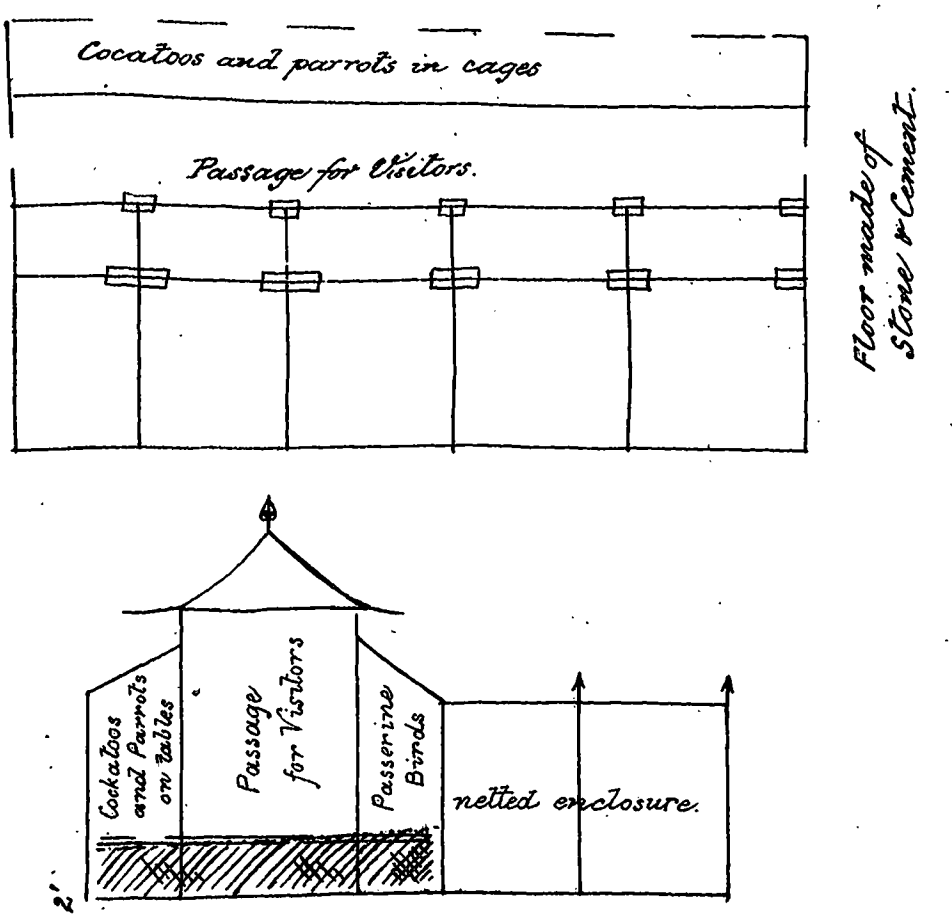
26. A properly equipped aviary is a most attractive object in a Zoological Garden, and can be maintained at a comparatively little cost. I, therefore, beg to suggest that steps be taken to build a proper aviary, and that endeavours be made to display a fine collection of birds representing Indian avi fauna.

27. The Presidency of Bombay is itself very rich in its avian wealth, and there need be no difficulty in gradually accumulating a stock of birds of such varied form and beauty as will delight the eye of every visitor to the Garden.

28. In building an aviary the following points should be kept in view :—

(*a*) Conspicuousness of position; (*b*) morning sun for the birds; (*c*) shelter from rain; (*d*) protection from draughts and cold; (*e*) good light; (*f*) provision, if possible, against inroad of rats.

29. Subjoined is a rough sketch of an aviary. Symmetry is somewhat sacrificed to secure morning sun for all the birds. It consists of a central passage for visitors with verandahs on each side. One of these should be devoted to cockatoos and parrots, and such other birds as can be exhibited in cages placed on tables. The other, facing the morning sun, should be divided into compartments for the reception of different groups of passerine birds and should be fitted with perches, swings, brackets, and even mirrors if possible. Outside this, a netted enclosure should be built, divided into sections corresponding with the compartments above indicated, and laid out like a conservatory. The enclosure ought to be so made and arranged that in case of necessity it may be removed and rebuilt on the other side of the house.



30. Aviaries for (1) pheasants and (2) birds of prey should be quite distinct from that devoted to a miscellaneous collection.

(1) With regard to the first, it would be both economical and practical if the suggestions made in the Calcutta Zoological Garden's handbook be adopted.

(2) Sentiment and imagination may be given a wide scope in designing a house for the display of raptoreal birds. A large lofty iron structure some 200′ long, 50′ broad, and 15′ to 20′ high, enclosing a forest of trees, would be an appropriate habitation for such mighty birds as vultures, eagles, ospreys, &c. As, however, it would be long before such a house can be built the Committee will have to be content with a less pretentious and economical structure for the present. In the Calcutta Zoological Garden these birds are accommodated in small cages, measuring 8′ × 4′ and about 7′ high, built in two rows under a substantial tiled shed. Most of them do well.

Aquatic birds.

31. The appropriateness of the Victoria Garden as a place for exhibiting aquatic birds of various kinds struck me very forcibly. There is a fine bit of ornamental water, with picturesque surroundings and a large display of ducks, and geese and other water fowls will add much to the effect of the whole. The Visiting Committee have made some excellent suggestions in regard to housing them in the large wire pavilion, which is a model of a duck house. It can, however, be much improved by building an annexe to it, taking in more land space. Cranes and storks ought to be also very largely represented. They are easily obtained, and not troublesome to keep.

Rhinoceros and elephant.

32. A rhinoceros and an elephant will make the garden very popular with all classes of the community, and steps ought to be taken to acquire these animals. One of the arms of the serpentine tank may be enlarged, deepened and enclosed with strong iron fencing for the reception of a rhinoceros. An inexpensive shed may be erected at one corner of the enclosure to shelter the animal from heavy and continuous rain. The elephant is more easily and inexpensively accommodated. Steps may be now taken to plant as many jack-fruit trees as possible, especially as there is no want of room. They will be extremely useful in feeding the rhinoceros and tapirs when they are acquired.

Hippopotamus.

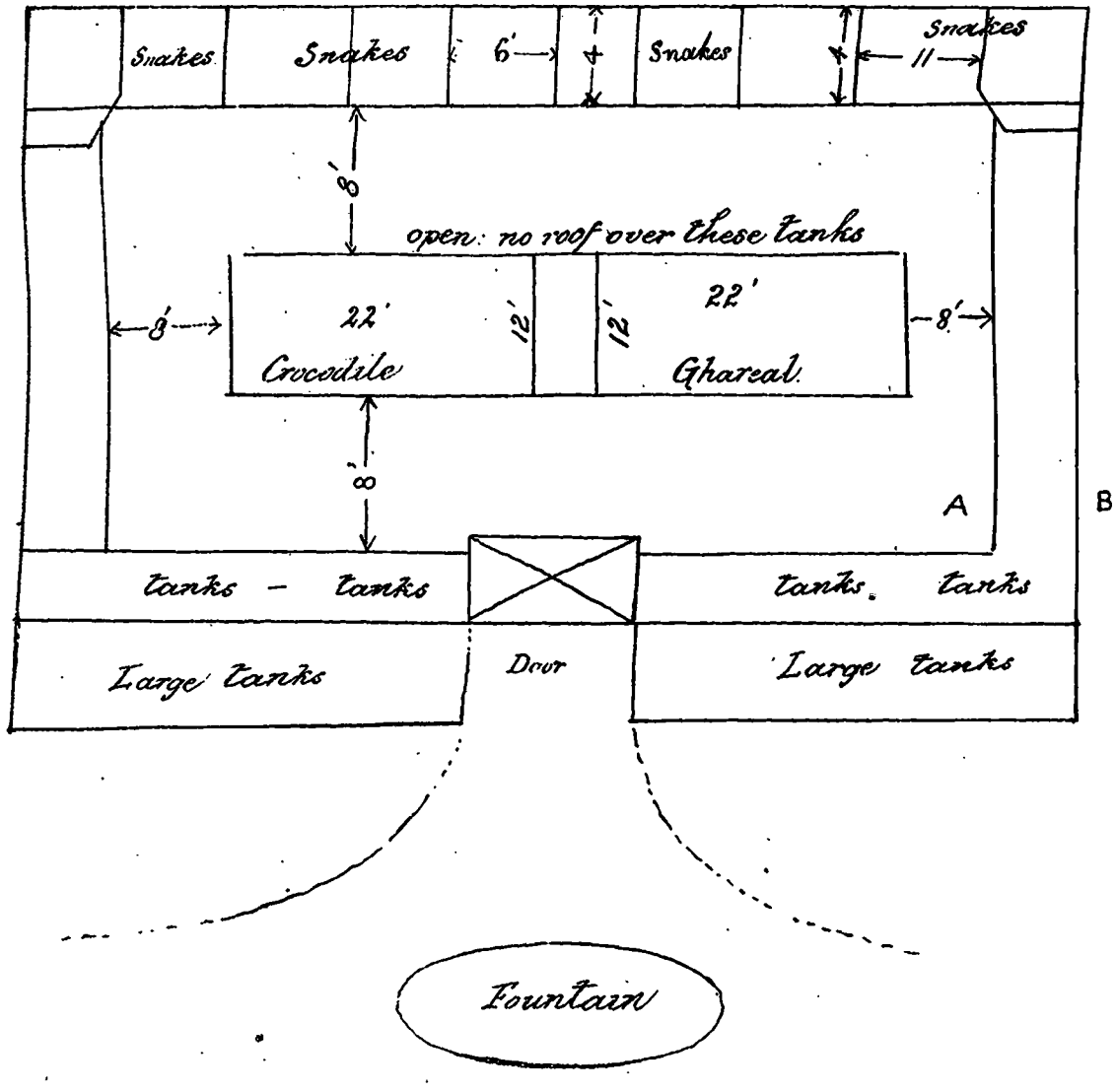
33. This animal is another object of curiosity, and well worth acquiring. Bombay fortunately enjoys greater facilities in regard to the acquisition of this animal than any other City in India. It can be accommodated in the same way as a rhinoceros.

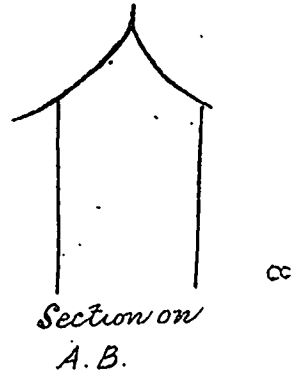
Aquarium and reptilium.

34. An aquarium on the most approved plan ought to be one of the principal attractions of the Bombay Victoria Garden. The situation of the City is remarkably favorable to its formation and

growth. A five minutes' walk round the galleries of the Bombay Natural History Society, or half an hour spent in the Crawford Market any morning, will give some idea of the resources of the Bombay waters. It would, in fact, be one of the most interesting and popular of institutions, and as such will be greatly appreciated by the public. There is another aspect of the question—its educational influence and economic importance. Various and grotesque forms of marine and fresh water fishes, crustacians and mollusks will captivate the imagination of the old and young; stimulate the faculties of observation of the latter and initiate him into the mysteries of a wonderful organization.

35. For the present an aquarium and a reptilium may be combined in one as indicated in the accompanying rough sketch.


Snakes
Snakes
6'
Snakes
Snakes
11
8'
open: no roof over these tanks
8'
22'
12'
12'
22'
8'
Crocodile
Ghareal
8'
A
B
tanks
tanks
tanks
tanks
Large tanks
Door
Large tanks
Fountain


Section on
A. B.

36. In fact, the house ought to be of the same style as the reptilium in the Calcutta Zoological Garden (which is only devoted to the exhibitions of snakes and crocodiles) with such modification of detail as experience has suggested.

37. Estimate of probable cost of building houses :—

Monkey house	Rs.	10,000
Aviary	,,	15,000
Pheasant house	,,	4,000
Deer Paddocks, &c.	,,	6,000
Rhinoceros, including excavation	,,	6,000
A house for small mammals, &c.	,,	5,000
Aquatic birds	,,	2,000
Miscellaneous requirements	,,	5,000
Aquarium and Reptilium	,,	40,000
Carnivora house (if a proper one is built)	,,	25,000 to 35,000
	Rs.	1,18,000

38. Estimate of probable cost of maintenance :—

Establishment	Rs.	9,000
Food of animals	,,	8,000
Purchase and transport of animals	,,	5,000
Contingencies	,,	1,000
Miscellaneous contingencies	,,	2,000
Repairs	,,	5,000
	Rs.	30,000 a year,

exclusive of the Horticultural Department of the Gardens.

Formation and management.

39. In order that the proposed scheme for the establishment of a Zoological Garden may be efficiently carried out a representative Council constituted somewhat as follows ought to be formed :— Delegates from the Municipality, General Public, Mercantile Community, University, Bombay Natural History Society and Local Government.

40. To be *ex-officio* Members of the Council.

The Brigadier-General Commanding the Division; Consuls for different nations; Agent, G. I. P. Railway; Agent, B. B. & C. I. Railway; Aegnt, P. & O. Co.; Director of Public Instruction; Health Officer of the Municipality; Executive Engineer, Municipality. Chief Executive Officer of the Municipality to be the President. The management and control of the garden should be vested in an Executive Committee appointed by the Council, and should consist of about five members and an Honorary Secretary, the President of the Council being also the President of the Executive Committee.

41. The Council and the Committee having been formed, the head of the Government, and all the Princes, Maharajahs, Nawabs, &c, of the Presidency ought to be invited to become Patrons of the Institution.

Supervision.

42. To secure efficient and trained supervision of the garden steps ought to be taken to engage the services of a competent man as a Superintendent or Director. He must have large experience of

animals and their management in captivity. Much of its popularity and success will depend upon his tact and judgment in its management, and upon his knowledge of the requirements of a developing institution. Having regard to these facts I beg to suggest the desirability of writing to Dr. P. L. Sclater, Secretary to the Zoological Society, London (3, Hanover Square), and to Herr Carl Hagenbeck of Hamburg, requesting them to help the Committee in the matter.

Deer Paddock.

43. I generally agree with the recommendations of the Visiting Committee as to the formation of deer paddocks; enclosures for kangaroos, &c. There ought to be at least eight paddocks for the exhibition of several species of deer, antelopes, goats, &c. But as the collection increases, the number of paddocks will have to be increased. Some spare paddocks would always be found useful for (1) growing fodder and (2) for separating bad tempered animals. I may mention here, that greater facilities for keeping these animals in good health exists here than in Calcutta, inasmuch as green grass is available throughout the year.

Struthious Birds.

44. The present ostrich enclosure is very suitable for these birds, except that they have no access to water. In course of time rhea, emu and cassowaries are sure to be added to the collection, and, as they all belong to the same group, they ought to have places assigned to them near the ostriches.

45. In course of conversation Veterinary Surgeon Colonel Hallen, Inspector General, Army Veterinary Department, made some important suggestions, which I beg leave to embody in this memorandum. He said that much has been done in Europe by mutual help in matters relating to the formation of Zoological Gardens, and that much can also be done here. Some enthusiastic member of the Committee ought to visit the Garden in Calcutta, and get an idea of the accommodation, &c., and improve upon the plans where necessary. The graduate of the Veterinary College now employed in the Victoria Gardens, ought to have a few months' experience of the working of the Calcutta Garden, and thereby make himself more useful to the Gardens.

RAMBROMHO SANYAL, C.M.Z.S.

Superintendent, Zoological Garden, Calcutta,

On special duty.

BOMBAY, *March* 1894.

Appendix. G.

No. 13220 OF 1894-95.

BOMBAY, 5th October 1894.

To

THE COMMISSIONER.

SIR,—With reference to the Municipal Commissioner's endorsement No. 7455 of 28th June last. on the Resolution of the Committee of the Corporation appointed to consider the subject of the future lighting of the City, I have the honour to report as follows :—

2. The questions to be considered are (i) whether the present system of lighting the City with gas should be continued ; (ii) whether the experiments made with the "Welsbach" incandescent gas lights have proved a success, and, if so, to what extent ; (iii) whether, in the event of the present system of gas lighting being abandoned, electric lighting or kerosine-oil lighting should be adopted.

Questions to be considered by the Committee.

3. With regard to items i & ii, I may state that the existing gas lights have an illuminating power of about 12 candles, and cost the City a sum of Rs. 2,83,350 annually, while the expense of lighting the City with the same number of kerosine-oil lamps, each having an illuminating power varying from 16 to 18 candles, would be Rs. 1,31,184, taking oil at Rs. 4 a case. This would lead one to conclude at once that the former should be abandoned and the latter adopted ; but since the introduction of the Welsbach burner, a change has taken place in favour of gas lighting.

Illuminating power and cost of existing gas lamps.

Illuminating power and probable cost of kerosine-oil lamps.

A change has taken place by the introduction of incandescent burners.

4. I have fully discussed the question of incandescent gas lighting in my No. $\frac{13\cdot72}{8\cdot94}$, and, in doing so, have pointed out the advantages and defects of that system of lighting as determined at the first experiment, but in order to give these lights a fair trial and to ascertain whether the defects could be rectified, the Corporation, at the recommendation of the Municipal Executive, sanctioned, under their Resolution No. 1870 of 4th May 1894, an expenditure of Rs. 1,882-8-0 for making certain additions and alterations to the sixty incandescent gas lamps which were put up, experimentally, in portions of Hornby Road and Church Gate Street and around the Frere and Wellington Fountains. These alterations consisted of the provisions for (*a*) storm-proof lanterns with reflectors ; (*b*) holders to keep the lanterns steady ; and (*c*) new cocks with climbing flame arrangement for lighting the lamps with sticks.

Advantages and defects of incandescent burners pointed out in the previous report.

Corporation have sanctioned additional expenditure for further experiments

Improvements in incandescent lights for which additional expenditure has been sanctioned.

5. Messrs. Mahler and Roscher obtained the new lanterns with the improvements above described, and put them up in the middle of July last. Since then these lights have been carefully watched, with the result that the breakage of the chimneys and mantles has been as exhibite. in the accompanying Statement No. 1.

Improvements effected in the incandescent lights, and the result of the experiment.

6. The new lanterns have so far proved satisfactory. Even during the most stormy gales the lights were perfectly steady, neither rain-water nor stray insects at all finding their way into the lanterns. The reflectors again aid in throwing the light on the road. The lamps are not now affected by the passing loads, and the new cocks, with climbing flame arrangement, have served in obviating the necessity of ascending the lamp-posts by means of ladders. The mantles are now prepared in Bombay, and there is now no chance of their being damaged, as was the case with those obtained from Europe. The Bombay-made mantles are stronger than those obtained from Europe. While the average life of the latter was 500 hours, as reported in the 18th para. of this office No. 13572 of 8th January 1894, that of the former has proved to be 730 hours, as will be seen from Statement No. 1 hereto attached. But it may be pointed out that while they have gained in strength, the mantles have lost in illuminating power. Those received from Europe gave a light of 34 candle-power, while those locally made emit a light varying from 25 to 30 candle-power. The reduction in the lighting power of the mantles by usage is not, however, much. From experiments made, it is found that a mantle, which was lighted for 380 hours, gave a light of 22·50 candle-power, and another which was lighted for 695 hours, gave 21 candle-power. It will thus be seen that in any case the incandescent gas light gives a light of 21 candle-power, *i.e.*, about 75 per cent. more than the ordinary gas one, which has an illuminating power of about 12 candles only.

The new lanterns have stood the test.

Comparison between the Bombay-made and Europe-made mantles.

Experiments made with the Bombay-made mantles.

The incandescent gas light more powerful than the ordinary one.

7. The quotations given by Mr. Penny, in his printed report of August 1894 to the Chairman of the Special Lighting Committee, give some very interesting information on the subject of incandescent gas lighting. According to Herr Hertwig, the mantles on an average emit nearly 56 candle-power light, while according to an article on the subject of incandescent gas lighting, printed in the journal of Gas Lighting, London, the mantles burn for close upon 1,200 hours without diminution, and that an incandescent gas

Mr. Penny's report.

burner burns 50 per cent. less gas with three times more light. We have not been able to obtain such satisfactory results here. The average life of the mantle has been found to be 730 hours, and the light consumes 40 per cent. less gas, at the same time giving 1·75 times more light than an ordinary gas light.

The experiments made in Bombay have not given such satisfactory results as those quoted in Mr. Penny's report

8. As regards the comparative merits of glass and mica chimneys, it will be observed from Statement No. 1 that while none of the mica chimneys were broken during the recent experimental period, as many as 7 glass chimneys burst during that time. But it may be observed that the mica chimney slightly diminishes the power of the light by about 2 candles. The advantage, however, of durability, which the mica chimney possesses over the glass one, more than counterbalances the slight disadvantage of loss of light.

Comparative merits of mica and glass chimneys.

9. At the rates submitted by Messrs. Mahler Roscher and Co. for making additions and alterations to the incandescent gas lamps, the probable cost of altering each of the existing ordinary gas lights will be Rs. 50, as detailed below :—

Cost of altering existing lights into incandescent ones.

	Rs.	a.	p.
1 Burner	13	8	0
1 Mica chimney	1	0	0
1 Mantle	2	8	0
Altering service pipe.....	1	0	0
1 Lantern	25	6	0
1 Holder	2	0	0
1 Climbing flame arrangement ...	4	0	0
Total...Rs.	49	6	0
Say, Rs.	50	0	0

10. The above amount is Rs. 10 in excess of the estimate given in this office No. 13572 of 8th January 1894. It is accounted for by the greater costliness of the lanterns and the additional charges for such new items as holders and climbing flame arrangement which were not originally contemplated.

Present estimate more than the last one.

11. This initial outlay is heavy, but is absolutely necessary, as, unless all the improvements are carried out, the lighting will not be satisfactory.

Initial outlay is heavy, but it is necessary.

12. It may be possible to reduce the initial cost of Rs. 50 per lamp, but I have adopted this estimate for my present purpose.

Possibility of reducing the initial cost of altering the lamps.

13. In para. 23 of my report No. 13572 of 8th January 94, I have estimated the annual lighting and maintenance charges of a part and a whole month, incandescent gas lamp at Rs. 58·50 and Rs. 73·50, respectively. In his report alluded to above (page 2), Mr. Penny assumes Rs. 54 and Rs. 71-6-0 for lighting and maintaining, annually, a part and a whole month incandescent gas lamp respectively. He also states in his letter, dated 17th ultimo, to my address (copy attached), that some sort of arrangement could be made, whereby the Gas Company would undertake not only to supply gas, but also the mantle and chimney, and that if a contract were entered into for 14 years or even 10, a very considerable reduction in the rate might be made. I have, however, for the purposes of my calculations, adopted Rs. 58 50 and Rs. 73·50 for the annual lighting charges of a part and whole month incandescent gas lamp. The existing charges of the ordinary part and whole month lamp being Rs. 71·6625 and Rs. 90·1750, respectively the initial cost of Rs. 50 will be recouped in 4 and 3 years respectively.

Cost of lighting and maintenance charges of incandescent gas lamps.

Mr. Penny's estimate of cost of incandescent gas light.

Initial cost would be recouped in 3 or 4 years.

14. If all the ordinary gas lamps were converted into incandescent ones, the annual lighting and maintenance charges at the assumed rates referred to above, would be Rs. 2,29,373 and the initial expenditure about Rs. 1,85,750 as shown in the accompanying statement No. 2. The annual charges for lighting the existing ordinary gas lamp being Rs. 2,83,350, as may be seen from the accompanying Statement No. 3, the annual saving would be Rs. 53,977.

Annual lighting and maintenance charges and initial cost of incandescent lamps.

Probable annual saving by the substitution of incandescent gas lighting.

15. Now with regard to the subject of kerosine oil lighting, I may state that at the commencement of the current year there were 1,500 kerosine-oil lamps in the City. As, however, 121 new lamps have been sanctioned in the current year's budget, the total will be 1,621 lamps. All these 1,621 lamps, save 93, are lighted with a single wick. The 93 are double-wick lights, such as those on Mayo Road and Queen's Road. These have one of their wicks extinguished at 10 p.m. Practically, then, it may be stated that the existing kerosine-oil lamps have only one wick lighted, and it would be a considerable improvement if all the lamps were lighted with double wicks. The existing system of kerosine lighting is not, therefore, a fair criterion for determining the merits of that system.

Kerosine-oil lighting.

16. Mr. Penny, in his printed report, offers some criticisms on the cost and illuminating power of kerosine-oil lights. As regards cost, Mr. Penny states that the Statement A, accompanying this office No. 13572 of 8th January 1894, showing the annual cost of kerosine-oil lamp is cut too fine. In support of this statement, he alleges (*a*) that the sum of annas 8 for repairs to lanterns per annum is inadequate, as the Gas Company spends Rs. 1-2-6 per lamp; (*b*) that annas 3 per lamp for chimneys is totally inadequate; and (*c*) that annas 3 per lamp per annum will not be sufficient for cloth.

Mr. Penny's remarks regarding kerosine-oil lighting.

17. These criticisms do not stand the test of actual experience, as will be seen on a moment's consideration of the figures given in Statement No. 4, which gives the details of the *actual* expenditure incurred on kerosine-oil lighting, during the year 1893-94. These figures are not hypothetical as Mr. Penny's figures are, but have been obtained from actual work done departmentally.

Mr. Penny's remarks do not stand the test of actual experience.

18. Mr. Penny has apparently overlooked two important facts in considering my estimate of the cost of kerosine-oil lighting. *Firstly*, the provision of a contingency of Rs. 1·78 per lamp, which equals Rs. 2,670 for the 1,500 lamps; and, *secondly*, that in the estimate no credit is taken for the amount realized by the sale of empty kerosine-oil cases and tins. The credit from this source, during the year 1893-94, was as much as Rs. 1,472-12-4. This sum, when added to the amount of contingencies of Rs. 2,670, gives Rs. 4,143, which is nearly double the actual expenditure of Rs. 2,310-8-9 incurred on everything required for kerosine-oil lighting, except oil and supervision.

Mr. Penny has overlooked certain items of credit towards the cost of lighting with kerosine-oil.

19. Mr. Penny reminds us (see page 9 of his report) that oil will not be sold at Rs. 4 per case, in the event of an alliance taking place between the Standard Oil Company of the States and the Russian Oil Wells Company. This is problematical and a remote contingency, but assuming that the price of oil goes up to Rs. 5, the rates of the part and whole month lamps, with 2 wicks lighted, would be Rs. 38·69 and Rs. 51·89, respectively, as against Rs. 71·66 and Rs. 90·68, the corresponding existing contract rates for ordinary gas lights.

Mr. Penny's apprehension regarding probable increase in the price of kerosine-oil.

20. As regards the illuminating power of the kerosine-oil lights, the following remarks made by the Commissioner, at the meeting of the Corporation on the 9th January 1893, would convey all that is necessary :—

Municipal Commissioner's remarks regarding illuminating power of kerosine-oil.

"..... I have had frequent personal communication with the "manager of the Gas Company, who is not prepared to admit "that our kerosine duplex lamps can give a continuous light of "22 candle-power. He admits that such a power has been "obtained from the lamps at the Photometer house. ..... The "manager has taken independent tests for his own information, "but it must be borne in mind—and I do not wish to reflect on "the manager of the Gas Company in any way—that the object "of my test was to discover where the interest of the Corporation lay, while the object of the tests taken by the gentlemen "interested either in gas or kerosine-oil, as the case may "be, has been to prove one of the two things, either that gas "or kerosine-oil was better. Therefore, those tests must be "considered with just a little reservation. However, the result "of Mr. Penny's test is nearly the same as my own. For "instance, in an experiment with the duplex lamp, he obtained "a light of 22·5 candle-power; after 4 hours it gave 21 candle-"power; after 8 hours it was reduced to 9 candle-power. "Another experiment began with a light of 19 candle-power; "after 4 hours it still gave the same power; after 8 hours it was "reduced to 13 or rather nearly 14 candle-power..... "I have no doubt the kerosine-oil lamp could be made to do better "than our experiment indicate. They are very carefully attended "to, there being an establishement to look after them from the "time they are lighted till mid-night....."

Mr. Penny's last experiment with kerosine-oil.

The last experiment of Mr. Penny shows that even after 8 hours lighting, the illuminating power of kerosine-oil duplex light is better by 2 candle-power than ordinary gas lights, but while carrying on these experiments, Mr. Penny has apparently overlooked the fact that, unlike gas lighting, the kerosine-oil lamps are attended to by lamp-lighters and muccadams till mid-night. If he had taken this fact into account, he would have found that the illuminating power of kerosine-oil lights would not fall below 16 to 18 candle-power.

Use of cheap kerosine-oil abandoned.

21. In the middle of last year it was thought worth while trying a cheaper oil of 125° proof test. It was, however, found unsuccessful, and given up after a very short trial.

Probable initial outlay for substituting kerosine oil lamps for the gas ones.

22. If all the gas lamps in the City were substituted by kerosine-oil lamps, the initial outlay required would be Rs. 58,172, and the annual charges Rs. 1,56,488 as shown in Statement No. 5. In these estimates I have taken Rs. 10 as the cost of each lantern and Rs. 5 for a case of kerosine-oil, although the price hitherto paid has been Rs. 4 for each lantern and about Rs 3-12-0 for each case.

Probable annual saving by the substitution of kerosine-oil for gas.

The present cost of lighting the City with gas being Rs. 2,83,350, the annual saving which might be effected by the substitution of kerosine-oil duplex lights (taking oil at Rs. 5 a case) for the existing gas lights would, therefore, be (2,83 350—1,56,488)= Rs. 1,26,862. Were it not, therefore, for the satisfactory results obtained from incandescent gas lights, I would have unhesitatingly recommended the total introduction of kerosine-oil lighting and the utilization of the saving effected in eventually introducing electric lighting.

Electric lighting. Messrs. Wadia and Sons' estimate.

23. We now come to the question of electric light. We have before us an estimate from Messrs. Naoroji Wadia and Sons, who offer to provide a plant consisting of (*a*) two modern type gas engines, giving 20 B. H. P. each, at a speed of 180 revolutions per minute; (*b*) three dynamos capable of giving 10 amperes and 650 volts at 1,030 revolutions per minute, for lighting with 22 arc lamps (each 2,000 candle-power 20 feet above road level and placed 400 feet apart) in Hornby Road from the Crawford Markets to the Frere Fountain, and portions of Esplanade Road, Mayo Road, and Church Gate Street, around the Post Office, the Telegraph Office, and the Queen's Statue. The conditions attached to this offer are, that the Municipality may purchase the plant at any time within 5 years on payment of Rs. 85,000, and shall, in the meantime, agree to pay for the lamps at the rate of Rs. 85 each per mensem *while the plant is kept going.*

Messrs. Wadia and Sons' proposal cannot be improved upon.

24. Treating the whole as an entirely new work and quite distinct from any existing electric lighting installation, the system proposed is very satisfactory and cannot be improved upon. With such a system, the maximum economy is obtained by the use of gas engines working with Dowson's gas and the minimum amount of risk of any break-down by the plant being in duplicate, with each alternate lamp arranged on a separate circuit.

Advisability of duplicating the existing Municipal plant.

25. If the Committee are disposed to give electric lighting a trial, it would, in my opinion, be advisable to consider the desirability, first, of duplicating, as far as possible, the machinery now installed for lighting the Municipal Offices and the Crawford Markets. We have now two separate installations, both dependent on one engine and boiler, and it should not be assumed that any one engine and boiler would work continuously day by day without being repaired. Break-down should always be considered as probable, and even the breakage of so small an article as a strap would result in a total stoppage of the lights.

26. Under these circumstances, instead of providing a new installation, entirely distinct from the existing one, it would be more reasonable to extend the Crawford Markets installation, to a few of the main thoroughfares, in order that the effect may be better seen and the cost more closely ascertained before the Municipality adopt any larger scheme. The present engine might well be used to drive another arc-lighting dynamo, precisely similar to the one recently installed for the lighting of the markets, provided the lighting of the Municipal building has its motive power removed.

Advisability of extending the existing Municipal plant to a few of the main thoroughfares.

27. Sooner or later the "alternator," which has been supplied to light the Municipal offices, will have to be removed, as, for the lighting of such a building, it would be far more economical and convenient to have the motive power as close to the lights as possible. The machine, even for a few lights, has to be run at full speed, and it is not until a large number are required that it works with anything like economy.

The existing "alternator" shall have to be renewed.

It is advisable to have the motive power near the lights in the Municipal office.

28. As there is already an efficient boiler in the compound of the Municipal offices for raising water for the hydraulic lift, this might very well be used for driving an engine and dynamo for lighting the building. By using a set of accumulators in conjunction with this dynamo, the maximum economy would be obtained, as, when the accumulators are charged, the work required from them is drawn off in proportion to the number of lamps alight. There would be no need to work the dynamo at night, and as the full complement of lights is very seldom, if ever, required, and when required is only for a short time, accumulators could be used with great advantage. It would only be necessary to charge the accumulators twice or thrice a week, in order to supply what lights are required in the building under ordinary circumstances, and if it is found inconvenient to charge them during day-time, the operation may be carried out at night. I, therefore, consider that the first step towards the further utilization of our present motive power at the Municipal Workshops, would be to arrange for an entirely separate installation for lighting the Municipal offices. The cost of this work would be about Rs. 12,000 as shown in the accompanying Statement No. 6, which Mr. Hoare, M.I.E.E. (whom I have consulted on this subject), has kindly prepared for me.

Existing boiler in the Municipal office may be utilized for lighting the building.

Accumulators could be used with advantage in the Municipal office.

Advisability of having a separate installation for lighting the Municipal office.

Probable cost of a separate installation for the Municipal office.

29. Having arranged to light the Municipal offices from a separate plant, no other arrangement would be required, as the dynamo, which at present works the lights in the Municipal offices, might be made to work 19 or 20 arc-lamps in the streets. This dynamo is, however, of the alternating current type, and although there is, I believe, a large number of arc-lamps now burning on this system in America and elsewhere, the light is not, I am informed by Mr. Hewett, the Superintendent Municipal Workshops, whom also I have consulted on the subject, so good as with a continuous current; for, in the former case, the rays of light are cast at right angles to the lamps or in a horizontal direction, and in the latter case, downwards. The adoption of the alternating currents for street-lighting cannot be recommended, and the present dynamo may, therefore, be done away with, and a new one, similar to that now lighting, the arc-lamps in the markets, may be substituted for it. For the proposed new dynamo, we already have a spare armature which, in case of a break-down, would then be available for either dynamo, all parts of the two dynamos being interchangeable.

Advisability of doing away with the alternating current.

30. The motive power of our existing installation is sufficient to drive the arc-lighting dynamos for the markets and the streets. With this machinery, it would be possible to light the Cruickshank Road and portions of the Carnac and Hornby Roads with 19 arc-lamps, as shown in the accompanying plan marked A. The cost of the work will be about Rs 28,000 as shown in Statement No. 7, also kindly prepared by Mr. Hoare at my request.

Existing motive power sufficient for lighting the markets and the streets.

Probable initial cost of lighting the Streets.

31. The obvious objection to the above proposal is that, while the chances of a total break-down of the dynamo will be reduced by the presence of the spare armature before mentioned, the motive power will not be duplicated. I have, therefore, to submit Statement No. 8, also kindly prepared by Mr. Hoare, for duplicating the existing motive power and providing, in addition, means for lighting the streets with 36 arc-lamps at a cost of Rs. 85,000, which sum is the same as that mentioned by Messrs. Wadia and Sons. Mr. Hewett, however, states that the present engine is not powerful enough to work 36 lamps, in addition to the 20 already installed in the markets, and thinks that 26 lamps would be nearer the mark. Mr. Hoare's estimate will, therefore, have to be modified accordingly. In this scheme it is proposed to put in another engine, side by side, with the existing engine and to put three dynamos, so that there will be two engines and four dynamos in all. Two of the three

Probable cost of duplicating the motive power.

new dynamos will be able to light, with ease, 26 street arc-lamps, (the third new dynamo will be kept in reserve for use in case of a break-down), and each of the two engines will be sufficiently powerful to drive all the three dynamos. The positions of these 26 lamps are shown on the accompanying plan marked B.

Advisability of adopting the above proposals instead of those of Messrs. Wadia and Sons.

32. If the Corporation are at all inclined to spend such a large sum, as Rs. 85,000, on experiments on lighting the streets with electric arc-lamps, I am of opinion that, instead of Messrs. Wadia and Sons' proposals, those made in the preceding paras. be adopted.

Objections to Messrs. Wadia and Sons' proposals.

33. The following are the objections to Messrs. Wadia and Sons' proposals:—(*a*) As the Municipality have begun electric-lighting, using steam as a motive power, it would not be advisable to again start with another power, such as gas. (*b*) As the present Municipal plant for electric-lighting is not in duplicate, any extensions which may be undertaken, in future, should be so planned, as to duplicate the present plant. (*c*) The starting of a Dowson gas plant would necessitate the employment of a separate staff of men; whereas the enlargement of the present station would need the employment of one staff only. (*d*) The enlargement of the present building would require considerably less space than what would be required for the Dowson gas plant.

Expenditure of Rs. 85,000 not recommended.

34. I am, however, not inclined to recommend an expenditure of such a large sum as Rs. 85,000 for experimental electric street-lighting. Assuming that Messrs. Wadia and Sons' proposal or some other proposal of substituting the existing 120 gas lamps, with 22 electric lamps, at an initial outlay of Rs. 85,000 and at an annual recurring expenditure of $22 \times 85 \times 12 = 22,440$ rupees be accepted, and also assuming that the experiment turns out successful, the next question is whether the Corporation is prepared to incur an initial outlay of about $\frac{3600}{120} \times 85,000 =$ Rs. 25,50,000, and an annual recurring outlay of Rs. $\frac{3600}{120} \times 22,440 = 6,73,200$ rupees for substituting electric arc-lamps for the ordinary gas lights in the City. Morevoer, arc-lamps placed 400 feet apart, as proposed by Messrs. Wadia and Sons, will not answer any useful purpose in crooked lanes and streets in the city, such as those in the Fort, Mandvi, &c.

Annual expenditure of lighting 22 lamps with electricity.

Initial outlay and annual expenditure of lighting the whole City with electricity

Comparison of cost of Messrs. Wadia & Sons' lamps with that of those in the markets, &c.

35. Messrs. Wadia and Son, offer to maintain each light on a monthly payment of Rs. 85. This is a high rate, taking into consideration the fact that we light the Crawford Markets, for more than half the night, with 20 rea-

lamps of the same candle-power, as those specified by Messrs. Wadia and Sons, and also light the incandescent electric lamps in the Crawford Market-tower and staircase, for the whole night, and in the Municipal offices for 2 or 3 hours each evening for a sum not exceeding Rs. 900 per month. If the Corporation decide upon lighting the streets experimentally, as described above, it would, therefore, be possible to light the street lamps at a less cost than that quoted by Messrs. Wadia and Sons.'

Lighting should not be entrusted to private firms.

36. But even if more favourable terms were offered, I am not inclined to recommend that the work of lighting should be entrusted to any private firm. Lighting is essentially a municipal work, and must remain in the hands of the Corporation. In his inaugural address, as President of the Institute of Electrical Engineers in January 1894, Mr. Alexander Simons, M.I.C.E., says that :—" From the " figures which I have given, it is plainly apparent that the local " authorities will very shortly have a " good many more stations at work than " the Electric-lighting Companies, and, in my opinion, *thisis as* " *it should be.* The financial success which has invariably attended " the Municipal electric enterprise has relieved the rates at the " expense of the wealthier classes in a perfectly legitimate " manner, and the more electricity becomes one of the common " necessaries of life, the more desirable it is that its supply should " be in the hands of the community and not in those of monopolists." This statement bears out my view that the electric-lighting of the City should be in the hands of the Corporation. I am also of opinion that electric-lighting will pay only when private individuals take connections from the Municipal electric cable for private consumption.

Mr. Simon's Remarks

Arc-lamps *vs.* Incandescent lamps.

37. It is by no means certain whether, in the event of lighting by electricity being recommended for adoption, the arc-lamp or the incandescent lamp will be found most suitable for the work. Hitherto, the greatest difficulty in the way, as regards the adoption of the latter type of lamps, has been the inability of the manufacturers to produce satisfactory lamps of high candle-power. This difficulty has now been practically got over, and I am informed by Mr. Hewett that incandescent lamps from 100 to 200 candle-power are now in the market. Arc-lamps, no doubt, give a very brilliant light within a small radius, but the whiter rays of this lamp are not so penetrating as the yellower rays from an incandescent lamp, and it appears that, in the space of 400 feet, four incandescent lamps of 100 to 150 candle-power each, give a better average light than one arc-lamp of 2,000 candle-power. Taking candle-power for candle-power, the arc-lamp requires a smaller

expenditure of electrical energy, and is cheaper in first cost, but when it is remembered that the incandescent lamp has no delicate machinery in combination to go out of order, and requires absolutely no attention until it is burnt out, which may not be for upwards of 2,000 working hours, the balance in favour of the arc-light is considerably reduced. The arc-lamp has delicate machinery for regulation, which is liable to rapid deterioration owing to the salt air of Bombay. Apart from this drawback, it requires daily renewal of carbons. Thus, it will be seen that this class of lamp requires a more expensive staff for its proper maintenance than the other. And as regards the lamp itself, it costs more in working expenses than the incandescent, judging from the experience gained at the Crawford Markets. There the cost has turned out to be more than that originally contemplated.

Mr. Larnaude's remarks regarding arc and incandescent lamps.

38. This subject is also mentioned in a communication delivered on June 6, 1894, by Mr. Larnaude before the *Societe International des Electriciens*. It is there stated that, light for light, incandescent electric lamp of large candle-power, costs about twice as much as arc-lamps, but it possesses many advantages over its more economical rival. It requires no attention, and it can be placed in any position and used exactly when it is needed. It can be lit up and extinguished without trouble and gives a perfect steady light, requires no enveloping shade, and provides a pleasanter light than arc-lamp.

Electric-lighting will not pay unless sold to private houses.

39. I am also of opinion that for street-lighting alone it would never pay the Municipality to set up a large electric central station, either for arc or incandescent lighting. It will be found that in almost every case, where street-lighting by electricity has been successfully and economically introduced by the Corporations in England and on the Continent, a certain amount of electrical energy has been sold to private houses and buildings along the line of the route. If, therefore, the large buildings, such as the Victoria Terminus, the General Post Office, and the large shops and hotels in our prinicipal streets would guarantee to draw their source of light from the Municipal electric mains and pay for it at a reasonable rate, it might be possible to introduce electric lighting into the City economically and successfully. But it is hopeless expecting such a guarantee, more especially now that it is found that incandescent gas-lighting is so pre-eminently adapted for their purpose.

Electric-lighting should be deferred.

40. Taking everything into consideration, and judging from the experience gained with the electric-lighting at the Markets and the Municipal Offices, I have come to the conclusion

that the question of entering into an expensive experiment with electric-lighting for the streets or introducing it generally into the City, should be deferred until a sufficient saving is made either by the introduction of incandescent gas or kerosine-oil lamps. It would be much better to introduce into the City, say, for the next 10 years, cheaper and more satisfactory lights than the present ordinary gas lights, and the accummulated savings of these years utilized in ultimately introducing electric-lighting into the City.

41. After carefully considering the whole question, I have come to the following conclusions that:—

Conclusions.

(1) It is premature to introduce electric lighting into the City immediately. It would be costly, unless private consumption can be counted upon. (2) The present system of ordinary gas lights should be done away with as soon as possible. (3) The Gas Company, and also Messrs. Mahler and Roscher, may be requested to quote for providing mantles, burners, lanterns, holders, chimneys and climbing flame arrangement, &c., for lighting the City with incandescent lamps. (4) The Gas Company may be asked to quote their charges for supplying 14 candle-power gas at a minimum pressure of $\frac{8\text{th}^{\text{s}}}{10}$, providing mantles, chimneys &c., maintaining the lamps and lamp-posts, if their contract were renewed for another ten years, and that if they undertake to provide the mantles, they should state their candle-power and also the minimum candle-power of the light. (5) If reasonable rates for incandescent gas-lighting are obtained from the Gas Company, the work may be given to that Company for a period of 10 years, provided the present contract is suitably altered and the several defects in it are remedied. (6) If, on the other hand, reasonable rates for incandescent gas lighting are not obtained, I would recommend the lighting of the whole City with kerosine-oil duplex burners for 10 years, and a contract entered into with some respectable firm for the supply of the oil for that period. The result of this arrangement would be—(*a*) a provision of 16 to 18 candle-power light in places lighted at present by 12 candle-power gas lights; (*b*) a provision of 16 to 18 candle-power light in places now lighted by 7 to 8 candle-power kerosine-oil lights; and (*c*) a net saving of Rs. 10,48,004 at the end of the period of 10 years, a saving amply sufficient to introduce electric lights, in a great part of the city. The following calculations show how the figure of saving abovementioned is arrived at :—

Annual *present* cost of lighting the City with gas (*vide* Statement No. 3)	Rs.	2,83,350
Do. do. with kerosine-oil (*vide* Statement No. 3)	„	35,557
The total *present* annual cost of lighting the City	„	3,18,907

Annual estimated cost of lighting with kerosine-oil duplex burners (*vide* Statement No. 5)		
(*a*) The portion of the City now lighted with gas	„	1,56,488
(*b*) The portion of the City now lighted with kerosine (taking oil at Rs. 5 a case) ...	„	67,957
Annual Sinking Fund and interest at 4 per cent., compound interest to recoup the initial outlay of Rs. 58,172, in converting the existing gas lamps into kerosine-oil ones (*vide* para. 22) in 10 years	„	7,172
Total yearly expenditure if the whole of the City were lighted with kerosine-oil duplex burners	„	2,31,617
Annual saving Rs.		87,290
A yearly sum of Re. 1 invested at 4 per cent. compound interest will accumulate in 10 years .....Rs.		12·006
Therefore, 87,290 × 12·006 = Total saving in 10 years... Rs.		10,48,004

I have the honour to be,
Sir,
Your most obedient Servant,
MUNCHERJEE C. MURZBAN, F.R.I.B.A., A.M.I.C.E.,
Executive Engineer.

No. 15664 of 1894-95.

Forwarded to the Municipal Secretary, in reference to his No. 3385 of the 26th June last.

T. S. WEIR, Acting Municipal Commissioner.

THE BOMBAY GAS COMPANY, LD.

BOMBAY, 17*th September* 1894.

To
THE EXECUTIVE ENGINEER, Municipality.

SIR,—In reply to your No 11689 of 11th September 1894 the new lanterns fixed in Hornby Row, etc., for the incandescent gas burners are most satisfactory in every way. From observations made during the past two months, the breakage of mantles and chimneys is practically nil and the lights are excellent. The difficulty which has not yet been satisfactorily overcome is the lighting by poles without the aid of ladders. The candle-power of the mantles has not apparently diminished in any way, and by observations and experiments carried out at Wiesbaden, the diminution up to 1,200 hours is very small. The result of these observations may be summed up as follows: a mantle could last up to 2,000 hours and

could give with 3 feet per hour consumption, at 1 inch pressure measured horizontally :—

100	burning hours	60	candles.
200	„	60	„
300	„	58	„
400	„	58	„
500	„	56	„
600	„	56	„
700	„	56	„
800	„	56	„
900	„	54	„
1,000	„	52	„
1,100	„	52	„
1,200	„	52	„
1,600	„	48	„
1,700	„	47	„
1,800	„	47	„
2,000	„	46	„

At Wiesbaden 431 street lanterns were adopted, and the result of experiments, extending over three months, gave as follows :— For an average of 1,000 burning hours 1·74 chimney and 1·89 new mantles were required, so the medium duration of a chimney was 574 burning hours. Medium duration of mantle 527 burning hours. The longest duration of chimney was 921 burning hours.

Do do. mantle do. 2 694 do. do.

The observations led to the certain conclusion that the duration of the mantle does not depend primarily upon the number of burning hours, but upon the exterior circumstances. We note such exterior circumstances as accidental breakages, street-vibrations, cleaning of the lantern, the lighting, storms, rain, damp atmosphere, &c., &c. As regards your query as to whether the Gas Company will undertake to supply the mantles and chimneys, I think I may say that some sort of arrangement can be made. I would ask you to consider whether, pending the report of the Special Lighting Committee, it is advisable to go into the question of yearly rates, I having stated in my report that as soon as it is decided whether gas, electric light or oil is to be adopted, I would accordingly be prepared to offer terms on which my Directors would enter into a contract. I may, however, inform you that I do not think they will be disposed, with the present low rate of exchange, to offer any reduction of the present rates for so short a term of three years. For fourteen years, or even ten if you prefer that term, a very considerable reduction will be offered.

There will be no difficulty in furnishing you with what you ask for, *viz.*, rate for supply of 14-candle gas with minimum pressure of $\frac{8}{10}$ the supply of mantles and chimneys, lighting, and extinguishing and painting lamps. As regards keeping lamps in repairs, the rate will depend on their being of copper or tin. For many years past, all new lamps made by us have been of copper. Any further information you may require is fully at your service.—I have, &c.,

L. PENNY, Manager.

STATEMENT No. 1.

Showing the durability of the Mantles and Chimneys put up in connection with the existing Incandescent Gas lamps.

Plate No. of Incandescent Lamps.	LOCALITY.	Date of putting up the mantles and mica chimneys.	Date of substitution of glass chimneys for mica chimneys.	Date of renewal of mantle.	Date of renewal of mica chimney.	Date of removal of glass chimney.	No. of hours the lamp burnt with mica chimneys from the commencement of the experiment up to 30th Sept.	No. of hours the lamp burnt with glass chimneys from the commencement of the experiment up to 30th Sept.	Total No. of hours the light burnt.	REMARKS.
1479	Hornby Road	21-7-94		30-8-94			717—45	.....	717—45	All the lamps burnt for 43,841 hours 15 minutes during the experimental period. Only 35 mantles out of 60 were broken. As there is not much life in the remaining 35 mantles, we may assume, to be on safe side, that 60 mantles would be broken in 43,811 hours 15 minutes, which gives about *730 hours* as the life of a mantle.
1480	Do.	Do.		...			717—45	.....	717—45	
1482	Do.	Do.		...			717—45	.....	717—45	
1483	Do.	Do.		12-9-94			717—45	.....	717—45	
1484	Do.	Do.		...			717—45	.....	717—45	
1485	Do.	Do.		...			717—45	.....	717—45	
1486	Do.	Do.		...			717—45	.....	727—20	
1487	Do.	Do.		21-9-94			727—20	.....	717—45	
1488	Do.	20-7-94		13-8-94			717—45	.....	717—45	
1489	Do.	21-7-94		...			717—45	.....	717—45	
1490	Do.	Do.		...			717—45	.....	717—45	
1491	Do.	Do.		...			717—45	.....	717—45	
1492	Do.	Do.		...			717—45	.....	717—45	
1493	Do.	Do.		6-9-94						
1494	Do.	18-7-94		28-8-94			746—30	.....	746—30	26 lamps were fitted up with glass chimneys from 31-7-94, and 7 chimneys were broken up to 1-10-94. This shows that the breakage of glass chimneys per lamp per month is $\frac{7}{52}$, or per lamp per year $\frac{84}{52}$ = 1·61 say, 2 to allow for contingencies.
1495	Do.	21-7-94		...			717—45	.....	717—45	
1493	Do.	Do.		...			717—45	.....	717—45	
1497	Do.	20-7-94		...			727—20	.....	727—20	
1498	Do.	Do.		30-8-94			727—20	.....	727—20	
1499	Do.	Do.		...			727—20	.....	727—20	
1500	Do.	Do.		26-9-94			727—20	.....	727—20	
1501	Do.	17-7-94		18-8-94			756— 5	.....	756— 5	
1502	Do.	20-7-94		18-9-94			727—20	.....	727—20	
1503	Do.	Do.		12-9-94			727—20	.....	727—20	
1504	Do.	Do.		...			727—20	.....	727—20	
1505	Do.	Do.		...			727—20	.....	727—20	
1506	Do.	16-7-94		...			765—40	.....	765—40	

1507	Hornby Road	19-7-94	...	...	...	...	736—55	.....	736—55
1508	Do.	20-7-94	...	19-8-94	...	...	727—20	.....	727—20
1509	Do.	19-7-94	...	14-9-94	...	...	736—55	.....	736—55
1510	Do.	Do.	...	...	...	...	736—55	.....	736—55
1567	Esplanade Road	Do.	...	...	...	...	736—55	.....	736—55
1568	Do.	Do.	...	20-8-94	...	...	736—55	.....	736—55
1569	Frere Fountain	Do.	31-7-94	...	...	...	736—55	.....	736—55
1570	Do.	Do.	Do.	...	...	...	115— 0	621—55	736—55
1571	Do.	Do.	Do.	7-9-94	...	7-9-94	115— 0	621—55	736—55
1572	Do.	Do.	Do.	...	...	...	115— 0	621—55	736—55
1573	Do.	Do.	Do.	1-9-94	...	...	115— 0	621—55	736—55
1574	Do.	Do.	Do.	...	...	...	115— 0	621—55	736—55
1575	Do.	Do.	Do.	...	...	27-8-94	115— 0	621—55	736—55
1576	Do.	Do.	Do.	24-8-94	...	...	115— 0	621—55	736—55
1577	Esplanade Road	Do.	Do.	21-9-94	...	...	736—55	.....	736—55
1807	Church Gate Street	16-7-94	Do.	16-8-94	...	...	143—45	621—55	765—40
1808	Do.	19-7-94	Do.	...	...	...	115— 0	621—55	736—55
1809	Do.	15-7-94	Do.	...	...	9-9-94	153—20	621—55	775—15
1810	Do.	18-7-94	Do.	21-9-94	...	21-9-94	124—35	621—55	746—30
1811	Do.	17-7-94	Do.	...	...	...	134—10	621—55	756— 5
1812	Do.	14-7-94	Do.	...	...	...	162—55	621—55	784—50
1813	Do.	18-7-94	Do.	26-9-94	...	...	124—35	621—55	746—30
1814	Do.	14-7-94	Do.	24-8-94	...	...	162—55	621—55	784—50
1815	Do.	18-7-94	Do.	3-9-94	...	24-8-94	124—35	621—55	746—30
1816	Do.	14-7-94	Do.	...	...	8-9-94	162—55	621—55	784—50
1	Wellington Fountain	23-7-94	Do.	...	...	...	76—40	621—55	698—35
2	Do.	Do.	Do.	...	...	...	76—40	621—55	698—35
3	Do.	Do.	Do.	...	...	...	76—40	621—55	698—35
4	Do.	Do.	Do.	...	...	...	76—40	621—55	698—35
5	Do.	Do.	Do.	17-8-94	...	17-8-94	76—40	621—55	698—35
6	Do.	Do.	Do.	...	...	...	76—40	621—55	698—35
7	Do.	Do.	Do.	...	...	...	76—40	621—55	698—35
8	Do.	Do.	Do.	5-9-94	...	...	76—40	621—55	698—35
60		60	26	25	...	7	27,671—25	16,169—50	43,841—15

MUNCHERJEE C. MURZBAN,

Executive Engineer.

BOMBAY MUNICIPALITY.

STATEMENT No. 2.

SHOWING the lighting charges and initial outlay if all the existing gas-lamps were converted into incandescent gas-lights.

LIGHTING CHARGES.

Number.	Description of lamps.	Annual lighting charges per lamp.	Total annual lighting charges.
		Rs.	Rs.
723	Ordinary whole month lamps	73·50	53140·50
2992	Ordinary part month lamps	58·50	175032·00
.....	Lighting Wadia Fountain..	.....	1200·00
	Total...Rs.	.....	2,29,373

INITIAL OUTLAY.

Number.		Rate per each article.	Amount.
		Rs.	Rs.
3715	Lamps and burners complete with mantle, mica chimney and climbing flame arrangement, and including the alteration to service pipe	50	1,85,750

MUNCHERJEE C. MURZBAN,
Executive Engineer.

APPENDICES.

STATEMENT No. 3.

Present cost of lighting the City with ordinary gas-lights and kerosine-oil lights.

No. of lamps.	Description of lamps.	Annual rate of lighting per lamp.	Total annual lighting charges.
	Gas Lighting.	Rs.	Rs.
723	Ordinary whole month lamps (720 + 3).....	93·00	67239·00
2859	Ordinary part month lamps (2789+10 + 51 + 4+ 5).	73·50	210136·50
16	Part month lamps round the Queen's Statue.....	70·00	1120·00
7	Part month small size bray's lamps at Apollo Bunder.	120·00	840·00
8	Part month large size Bray's lamps at Apollo Bunder.	...	2793·00
2	Part month Bray's lamps 250 candle-power each	808·50	1617·00
1	Special Bray's lamp at Church Gate Street	...	612·00
4	Part month Bray's lamps 100 candle-power each.....	441·00	1764·00
1	" " " " 200 " " "	808·50	808·50
8	" " " " round the Frere Fountain...	120·00	960·00
8	" " " " " Wellington " ...	150·00	1200·00
1	" " " " 80 candle-power Queen'sRoad	294·00	294·00
			289384·00
	Deduct 2½ per cent. rebate.....	.....	7234·60
			282149·40
	Lighting Wadia Fountain and Clock Tower	.....	1200·00
	Total annual cost of gas lighting...	.....	283349·40
	Kerosine Oil-Lighting.		
87	Kerosine-oil lamps, double wick, part month.....	32	2784·00
1137	" " single " "	20	22740·00
6	" " double " whole month.....	43	258·00
391	" " single " "	25	9775·00
	Total annual cost of kerosine-oil lighting.....	...	35557·00
	Total annual cost of lighting the City with ordinary gas-lights and kerosine-oil lights as at present	...	3,18,906

MUNCHERJEE C. MURZBAN,
Executive Engineer.

BOMBAY MUNICIPALITY.

STATEMENT

Details of actual expenditure incurred in

Number of lamps.	Months of the year 1893-94.	Kerosine-oil cases.	Chimneys.	Matches.	Founts.	Burners.		Ladders.	Wicks.	Dongri cloth pieces.	Repairs to lanterns.			Annual painting.
						Duplex No.	Single No.				Rs.	a.	p.	
		No.	No.	Gross.	No.			No.	bundles					
1,487	March	327	76	.....	28	...	24	...	1	...	33	2	0	.....
1,487	April	304½	46	.....	13	...	...	2	10	4	68	9	0	.....
1,493	May.....	327	127	.....	11	...	...	2	21	...	67	7	3	.....
1,493	June	446	457	.....	40	...	...	1	10	4	41	4	6	.....
1,494	July.....	407	184	.....	21	8	...	...	11	...	41	0	6	.....
1,494	August ...	473½	359	.....	33	11	12	2	13	...	40	0	0	.....
1,494	September	381	197	.....	6	5	...	1	...	4	63	0	6	.....
1,494	October ...	378	141	.....	61	3	24	2	25	...	56	5	3	.....
1,495	November.	277	63	.....	33	1	36	11	13	5	55	3	0	.....
1,500	December.	366	71	.....	2	1	48	...	25	...	81	12	6	.....
1,500	January...	357½	62	.....	5	...	12	...	12	5	48	9	6	.....
1,500	February..	341	57	.....	16	12	...	2	12	8	26	11	6	.....
	Total.....	4,385½	1,830	97½	269	36	156	23	153	30	...	...	...	.....
	Rate.....	Rs. a. p. 3 9 1 per case on an average	Rs. a. p. 1 1 6 per dozen on an average	Rs. a. p. 1 0 0 per gross on an average	Rs. a. p. 0 8 3 per each on an average	Rs. a. 2 8 per each.	Rs. a. 2 0 per dozen	Rs. a. 0 8 per each.	Rs. a. 0 12 per bundle.	Rs. a. 1 2 per piece.				
	Total amount...	15,635 5 7	166 12 9	97 13 9	138 11 3	90 0 0	23 0	11 8	114 12	33 12	623	1	6	499 6

APPENDICES.

No. 4.

Kerosine-oil Lighting during the year 1893-94.

Advertisement for sale of empty kerosine-oil cases.			Waterproof coats for Muccadums.	Patty oil-cloth, twine, galnis, scissors, cart-hire, &c.			New lanterns with with posts and brackets.				Supervision and labour.		Remarks.
Rs.	a.	p.		Rs.	a.	p.	No.	Rs.	a.	p.	Muccadums.	Lamp lighters.	
27	15	0	.....	.....	...	...	...	...	...	...	Rs. 7,980 per annum, but allowing for absentees = Rs. 7,920-4-10.		A net amount of Rs. 1,472-12-4 was realized by the sale of empty kerosine-oil cases and tins. They were sold by public auction at rates varying from Rs. 32 to Rs. 44 per 100. Taking credit for this amount, the total expenditure on lighting 1,500 lamps amounts to Rs. 2,433-6-10, which gives an average rate of Rs. 16-1-2 per lamp per years which is well within the rates given in Statement "A."
28	0	0	.....	.....	...	...	...	...	...	...			
.....	...	...	.....	8	0	0	6	60	0	0			
33	0	0	.....	7	6	6	...	..	..	...			
.....	...	...	.....	37	8	0	1	10	0	0	11 Muccadums at Rs. 15 per month.	50 Lamp-lighters at Rs. 10 per month.	
.....	...	...	.....	.....	...	...	...	...	...	...			
12	8	0	.....	37	8	0	...	...	...	...			
20	12	0	.....	1	2	0	...	...	...	...			
35	8	0	.....	.....	...	...	1	10	0	0			
53	11	0	.....	0	8	0	5	50	0	0			
10	3	0	.....	.....	...	...	...	...	...	...			
12	...	0	.....	3	10	0	...	...	...	...			
.....	...	...	.....	.....	...	...	13	...	...	...	11	50	
			Rs. a.										
233	9	0	49 8	95	10	6	...	130	0	0	7,920 4 10		Rs. 25,866 3 2

MUNCHERJEE C. MURZBAN,
Executive Engineer, Municipality.

STATEMENT No. 5.

Showing the cost of lighting the City if the existing Gas and Kerosine-oil Lamps were converted into Kerosne-oil Lights, with two wicks lighted.

No.	Description of lamps.	Annual lighting charges if the rate of kerosine-oil per case be						Initial outlay.			
		Rs. 4.		Rs. 4-8-0.		Rs. 5.		Quantity.	Item.	Rate per each article.	Amount.
		Rate.	Amount.	Rate.	Amount.	Rate.	Amount.				
	IN LIEU OF THE EXISTING GAS-LAMPS.	Rs.	Rs,	Rs.	Rs.	Rs.	Rs.	No.		Rs.	Rs.
723	Ordinary whole month lamps ...	43·09	31,154·07	47·49	34,335·27	51·89	37,516·47	3,798	Special lanterns	10	37,980
16	Lamps round the Queen's Statue.							3,798	Reservoirs, burners and chimneys.	4	15,192
200	Lamps for the existing Bray's lamps.										
2,859	Ordinary part month lamps.							500	Teakwood posts with cradles.	10	5,000
3,075	Total	32·53	1,00,029·75	35·61	1,09,500·75	38·69	1,18,971·75				58,172
	Total annual cost of lighting existing gas-lamps if converted into kerosine oil-lamps	...	1,31,184	...	1,43,836	...	1,56,488				
	IN LIEU OF THE EXISTING KEROSINE-OIL LAMPS.										
397	Ordinary whole month lamps.....	43·09	17,106·73	47·49	18,853·53	51·89	20,600·33				
1,224	Ordinary part month lamps	32·53	39,816·72	35·61	43,586·64	38·69	47,356·56				
	Total annual cost of lighting existing kerosine-oil lamps with two wicks lighted.	...	56,924	...	62,440	...	67,957				
	Total annual cost of lighting the City, both the existing gas and kerosine-oil lamps being converted in to kerosine-oil lamps with two wicks lighted.		1,88,108		2,06,276		2,24,445				

MUNCHERJEE C. MURZBAN,

Executive Engineer, Municipality.

STATEMENT No. 6.

Showing the cost of erecting an Installation in the compound of the Municipal Offices for lighting them.

One 6 horse-power Vertical Marshall Engine, with governors and accessories.

One S. H. 8 shunt wound dynamo running at 1,000 Rev. 110 volts.

104 accumulators L 11.

Steam piping and cotton belt.

One complete switch-board with labour per erection.

Slight alterations to the existing wires.

As per Mr. Hoare's estimate.....	Rs.	8,395
Add for contingencies and road repairs.	,,	1,605
Add for building	,,	2,000
Total...Rs.		12,000

MUNCHERJEE C. MURZBAN,
Executive Engineer, Municipality.

STATEMENT No. 7.

Showing the cost of putting up additional Installation and plant at the Municipal Workshops to light Hornby Road from Crawford Markets to Victoria Terminus, Carnac Road from Crawford Markets to Money School and Cruickshank Road.

One S. H. 18 dynamo as at present.
One switch-board as at present.
One link leather belt.
One new shaft.
One friction clutch.
24 Brockie Pell arc lamps.
19 Poles for arc lamps.
2 Miles $\frac{1}{16}$ J. cable.
2 Miles 1" iron pipe.

As per Mr. Hoare's estimate	Rs.	25,230
Road repairs and contingencies	,,	2,523
	Rs.	27,753
Say, Rs...		28,000

MUNCHERJEE C. MURZBAN,
Executive Engineer, Municipality.

BOMBAY MUNICIPALITY.

STATEMENT No. 8.

Showing the cost of putting up additional Installation and plant at the Municipal Workshops to light the whole of Carnac, Cruickshank and Paltan Roads and a portion of Hornby Road, from Crawford Markets to Victoria Terminus.

One Marshall 25 H. P. Nom. engine and boiler.
One main driving belt.
Three, S. H. 18 dynamo, similar to the present one.
3 Link leather belts.
2 Switch-boards.
3 Friction clutches.
40 Brockie Pell arc lamps.
36 Lamp posts for are lamps.
One new shaft and pedestals.
6 Miles $\frac{7}{16}$ J. cable.
5 Miles 1" piping.
Complete enlargement of present shed.
Erecting engine and all foundation.
Laying all wires.

As per Mr. Hoare's estimate, Rs. 85,000.

MUNCHERJEE C. MURZBAN,
Executive Engineer, Municipality.

No. 20047-A OF 1894-95.

BOMBAY, 28*th November* 1894.

To

THE MUNICIPAL SECRETARY.

MEMO.—Mr. Barrow has been good enough to let me have the papers about lighting. Had I been here when Mr. Murzban's report came in, I should probably have written at some length on the subject; but it is too late to do so now, and I will confine myself to the conclusion I have arrived at, and that is to recommend that a ten years' contract with the Gas Company should be entered into and all the gas-lamps in the City fitted with the Welsbach burner.

The cost of conversion of 3,715 lamps is estimated at Rs. 1,85,750, at Rs. 50 for each lamp, or, adding 10 per cent. contingencies, Rs. 2,04,325. The saving will be Rs. 61,211 per annum, representing, at 4 per cent., a capital of over 15¼ lakhs.

I think the conversion might be extended over 3 years, and after consulting the Executive Engineer, I propose the arrangement shown in the following table :—

Year.	Number of lamps to be converted.	Cost, including 10 per cent. contingencies.	Annual saving.
		Rs.	Rs.
1895-96	1,258	69,190	21,238
1896-97	1,242	68,310	21,240
1897-98	1,215	66,825	18,733
		Total.....	61,211

On these figures there will be an addition to the cost of gas lighting for 1895-96 of (Rs. 69,190—21,238 or) Rs. 47,952; in 1896-97 of (Rs. 68,310—21,238+21,240 or) Rs. 25,832; and in 1897-98 of Rs. 66,825—61,211, Rs. 5,614. After this year there will be an annual saving of Rs. 61,211. These figures may require some revision, however—because, in the first place, the conversion can only be gradually effected and not per saltum, so that for some weeks some of the gas lamps, which it is proposed to convert, will be burning at the old and more expensive rate, while against this must be set the reduction in rates which we expect from the Gas Company on a ten years' contract. The figures given above are, I think, sufficiently near the mark to supply valid data for the guidance of the Committee.

I beg to suggest a very early meeting. The Gas Company have a right to expect information before the end of December as to whether their contract will be continued or not, as they have to conclude contracts for supplies from home early in the calendar year.

H. A. ACWORTH,
Commissioner.

No. 17922 OF 1894-95.

BOMBAY, *5th December* 1894.

TO THE MUNICIPAL COMMISSIONER.

SIR,—In continuation of the correspondence ending with my No. 13220 of 3rd October 1894., I have the honor to report that the only question that remains to be discussed in connection with

the future lighting of the city is the financial aspect of the several schemes of lighting. The consideration of this question was deferred until it was known at what rates the Gas Company would undertake to light the gas lamps. This information has been supplied by the Manager of the Gas Company in his letter dated 27th November 1894, a copy of which is hereto attached.

2. Mr. Penny suggests in his letter that the hours of lighting should be revised and somewhat increased. He proposes that instead of lighting a part month and a whole month lamp for 3,073½ and 3,869 hours per annum, as at present, they should be lighted for 3,102 and 3,907 hours, respectively. This small increase in the number of hours may be accepted, as it will add to the public convenience to some extent. The extra rate claimed for these additional hours varies from Re. 1 to 7 annas per lamp per annum, as shown in the following statement. This is trifling compared with the whole cost :—

Description of lamps.	Proposed annual lighting charges.	
	If the hours of lighting remain the same as at present.	If the hours of lighting were increased as proposed by Mr. Penny.
	Rs.	Rs.
Ordinary whole month lamps	82·00	83·00
„ part „ „	65·25	66·00
Incandescent „ „	74·00	74·50
„ whole „ „	60·31	60·75

3. In order to ascertain the reasonableness or otherwise of the rates now offered by the Gas Company it is necessary to compare them with the existing rates of gas lights and kerosine-oil lights. The following statement shows this comparison at a glance :—

Description of lamp.	Minimum candle power.	Present rates.		Proposed rates.		
		Part month.	Whole month.	Part month.	Whole month.	
				Rs.	Rs.	
Incandescent gas lamp	21	...	...	60·75	74·50	
Ordinary gas lamp ...	12	71·6625	90·6750	66·00	83·00	
Kerosine-oil lamp ...	16 to 18	38·69	51·89	....	...	Assuming the cost of each case of oil at Rs. 5.

4. It will be seen from the above table that even at the reduced rates the cost of an ordinary gas lamp, giving a light of only from ⅓rds to ⅔ths of that given by a kerosine-oil lamp, will be very nearly 75 per cent. more than that of the latter. Again the reduced rates for ordinary gas lights, now offered by the Gas Company, compare very unfavorably with those paid by the Calcutta Corporation for the same description of light. That Body pays Rs. 60 per each 14 candle power lamp, burning for 3,650 hours per annum. At this rate, the rates for each part month and whole month lamp, burning for 3,102×3·907 hours per annum, should not exceed Rs. 50·99 and Rs. 64·23 respectively, as shown below.

Hours.	Hours.	Rs.	Rs.
3,650	3,102	60	50·99
3,650	3,907	60	64·23

5. The above calculations show that even the reduced rates now proposed by the Gas Company are fully 30 per cent. higher than those paid by the Calcutta Corporation for the same description of light. Mr. Penny accounts for this difference to there being 6,000 gas lamps against 3,700 in Bombay, and to the cost of coal in Calcutta being Rs. 9-8-0 per ton against Rs. 16 per ton in Bombay. Mr. Kimber, C.E., Engineer to the Calcutta Corporation, informs me, however, that there are only 4,585 gas lamps in Calcutta Town Proper. Bengal coal can be had at a somewhat cheaper rate in Bombay than Rs. 16 per ton.

6. Assuming, however, the rates of *ordinary* gas lights now given by Mr. Penny to be reasonable, his rates for *incandescent* gas lights are unreasonably high. They should be Rs. 55·20 and Rs. 68·40 per part and whole month lamp, respectively, as shown below instead of Rs. 60·75 and Rs. 74·50.

Rate now offered for ordinary part month lamp	Rs.	66
Deduct for lighting, extinguishing and repairs	„	4
Value of Gas	„	62
Deduct for saving of gas in incandescent gas light	„	24·80
Cost of gas in incandescent lamp	„	37·20
Add for mantles, chimneys, lighting, extinguishing and repairs (Mr. Mahler's rate).	„	18·00
Rate per incandescent part month lamp	„	55·20
Rate for ordinary whole month lamp	„	83·00

Brought forward...	Rs.	83·00
Deduct for lighting, extinguishing and repairs	„	4
Value of Gas...	„	79
Deduct gas saved by incandescent gas light	„	31·60
Cost of gas for incandescent gas lamp	„	47·40
Add for mantles, chimneys, lighting, extinguishing and repairs (Mr. Mahler's rate)	Rs.	21·00
Rate per incandescent whole month lamp	„	68·40

7. If the rates now offered by Mr. Penny are accepted and if it be decided to introduce incandescent gas lighting, I would recommend that a contract may be entered into, with the Gas Company for a period of 10 years, and that all the ordinary gas lamps be converted into incandescent gas lamps during the first three years of the contract, at an expenditure of Rs. 2,04,325, as shown in the accompanying statement marked " A." This course would effect a *net* saving of Rs. 2,13,332 in the period of ten years, as shown in the accompanying statement "B".

8. If, however, the ordinary gas lights were continued, as at present, at the revised rates now offered by the Gas Company, for a period of 10 years, the net saving during this period would be

Present cost. Cost at reduced rates.

10 (2,83,350—2 61.848=2,15,020, a saving slightly greater than that which would be effected by the incandescent gas lighting, which is admittedly more economical than ordinary gas lighting. This anomalous result is due to the fact that the revised rates offered by the Gas Company are unreasonably high, as shown above.

9. If, on the other hand, the existing ordinary gas lights were substituted by kerosine-oil lights, the net saving that would be effected during the period of 10 years, would be

Cost at revised rates of Gas. Cost of Kerosine-oil lighting. Initial cost of conversion.

10 (2,61,847—1,56,488)—58,172=Rs. 9,95,418, say 10 lacs of Rupees.

10. The financial aspect of the whole question of lighting is now rendered very simple. On the basis of the revised rates now offered by the Gas Company, there would be a net saving of a trifle over Rs. 2,10,000 in a period of 10 years, whether the ordinary gas lighting is continued or the incandescent gas lighting introduced. On the other hand, there would be a net saving of about Rs. 10,00,000 in a period of 10 years, if the existing ordinary gas lights were substituted by kerosine-oil lamps.

11. It seems to me, therefore, that it would be advisable to request the Manager of the Gas Company to reconsider the rates offered by him. I, for one, would regret to see the connection of the last 30 years between the Gas Company and the Municipality so suddenly severed.

12. If the Manager of the Gas Company declines to reduce the rates any further, then it would be for the Corporation to decide whether the incandescent gas lighting should be introduced and thereby save about Rs. 2,10,000 in 10 years or to introduce kerosine-oil lighting and save nearly five times the above amount. In my humble opinion the superior light given out by the incandescent gas light does not appear to be sufficient justification for recommending a loss of an annual saving of nearly 80,000 of Rupees, which would be otherwise effected by the introduction of kerosine-oil lights.

13. If, however, it be possible to come to an understanding with the Gas Company, the terms of the present contract shall have to be considerably modified and altered. These modifications and alterations will be settled by the Executive Engineer in consultation with the Manager of the Gas Company, of course subject to the sanction of the Municipal Commissioner, and in the event of any difference arising between them, the question may be referred to the Municipal Commissioner or to arbitration.

I have the honor to be,

Sir,

Your obedient Servant,

M. C. MURZBAN,

Executive Engineer.

STATEMENT No. A.

The number of ordinary gas lamps proposed to be converted into incandescent gas lamps during each of the three succeeding years and the initial outlay required for the purpose during each year.

Year.	A.		B.		C.		D.		E.		F.		G.		Total.		Grand Total.	Rate per each.	Amount.	Ten per cent. contingencies.	Total.
	Part Month Lamp.	Whole Month Lamp.	Part Month Lamp.	Whole Month Lamp.	Part Month Lamp.	Whole Month Lamp.	Part Month Lamp.	Whole Month Lamp.	Part Month Lamp.	Whole Month Lamp.	Part Month Lamp.	Whole Month Lamp.	Part Month Lamp.	Whole Month Lamp.	Part Month Lamp.	Whole Month Lamp.					
1895-96	772	161	...	...	113	212	...	...	...	...	...	...	...	...	885	373	1,258	50	62,900	6,290	69,190
1896-97	...	...	490	195	319	...	196	42	...	...	...	...	...	...	1,005	237	1,242	50	62,100	6,210	68,310
1897-98	...	...	...	...	...	...	411	...	457	87	110	10	124	16	1,102	113	1,215	50	60,750	6,075	66,825
Total.....	772	161	490	195	432	212	607	42	457	87	110	10	124	16	2,992	723	3,715	50	1,85,750	18,575	*2,04,325

* This amount includes 10 per cent. contingencies, but the total of Rs. 1,85,750 given in the Statement No. 5, attached to my Office No. 13220, does not include any contingencies.

M. C. MURZBAN,

Executive Engineer,

Municipality.

STATEMENT B.

Probable amount of saving on the present contract rates that would be effected by the gradual conversion of ordinary gas *lights* into incandescent gas lights, at the reduced rates offered by the Gas Company in Mr. Penny's letter, dated 29*th* November 1894.

	Annual Lighting Charges.												Remarks.
	Of the ordinary gas lights as at present at the revised rates.			Of the gas lights (when the first batch of 1,258 ordinary gas lights are converted into incandescent gas lamps) at the revised rates.			Of the gas lights (when the second batch of 1,242 ordinary gas lights are converted into incandescent gas lamps) at the revised rates.			Of the gas lights (when the third batch of 1,215 ordinary gas lights are converted into incandescent gas lamps) at the revised rates.			
	No.	Rate.	Amount.	No.	Rate.	Amount.	No.	Rate.	Amount.	No.	Rate.	Amount.	
Ordinary whole month lamps	723	83·00	60,009·00	350	83·00	29,050·00	113	83·00	9,379·00	...	...	...	The Bray's lamps are calculated at the rates now paid to the Gas Company,
Ordinary part month lamps	2,859	66·00	1,88,694·00	2,078	66·00	1,37,148·00	1,102	66·00	72,732·00	...	...	...	
Incandescent part month lamps	...	...	.....	781	60·75	47,445·75	1,757	60·75	1,06,737·75	2,859	60·75	1,73,684·25	
Incandescent whole month lamps	...	...	.....	373	74·50	27,788·50	610	74·50	45,445·00	723	74·50	53,863·50	
Part month lamps round the Queen's statue	16	66·00	1,056·00	101 incandescent part month gas lamps.		...	133 incandescent part month lamps.	...	.....	133 incandescent part month lamps.	...	...	
Bray's lamps. Apollo pier ..... small size	7	120	840·00			...		...	... ..		...	...	
Apollo pier ..... large size	8	...	2,793·00			...		...	.....		...	...	
Wellington Fountain	8	150·00	1,200·00		60·75	6,318·00		...	.....		...	...	
Flora Fountain	8	120·00	960·00		...	...		...	.....		...	...	
Hornby Road	1	808·50	808·50		...	..		...	.....		...	...	
Church Gate Street	1	...	612·00		...	...		60·75	8,079·75		60·75	8,079·75	
Prince's Dock	1	808·50	808·50	1	808·50	808·50		...	.....		...	...	
Victoria Dock	4	441·00	1,764·00	4	441·00	1,764·00		...	.....		...	...	
Queen's Road (Chaupatl)	1	294·00	294·00	1	294·00	294·00		...	.....		...	...	
Warden Road	1	808·50	808·50	1	808·50	808·50		...	.....		...	...	
Wadia Fountain	...	...	1,200·00	.....	...	1,200·00	..	...	1,200·00	...	...	1,200·00	
			2,61,847·50			2,52,625·25			2,43,573·50			2,36,827·50	

		Present amount.	Amount at reduced rates.	Annual saving.
The saving effected during the 1st year	Rs.	2,83,350	— 2,61,848	Rs. 21,502
" " " 2nd year	Rs.	2,83,350	— 2,52,626	Rs. 30,724
" " " 3rd year	Rs.	2,83,350	— 2,43,573	Rs. 39,777
" " " 4th & each of the succeeding year	Rs.	2,83,350	—2,36,828	Rs. 46,522
Total saving effected during ten years		=21,502+30,724+39,777+	(7×46,522) =	Rs. 4,17,657
Deduct initial cost of conversion				2,04,325
Net saving	Rs.			2,13,332

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BOMBAY MUNICIPALITY.

No. 17991 OF 1894-95.

BOMBAY, *6th December* 1894.

To THE MUNICIPAL COMMISSIONER.

SIR,—In continuation of my letter No. 19922 of yesterday, I have the honor to report, that I have since had an interview with Mr. Penny, and its result is a letter received yesterday from that gentleman, a copy of which is sent herewith.

2. It will be observed from this letter that Mr. Penny offers Rs. 73·50 and Rs. 58·50 for lighting annually an incandescent whole month and part month lamp, respectively, instead of Rs. 74·50 and Rs. 60·75, quoted in his letter, dated 27-11-94.

3. Even these rates are somewhat high, I think that the rates should be Rs. 68 for each whole month, and Rs. 55 for each part month incandescent gas lamp, as explained in para. 6 of this Office No. above quoted. The reduction, now made by the Manager of the Gas Company, does not affect the views and figures given in this letter. The only difference is that the net saving in ten years by the introduction of incandescent gas lighting will be Rs. 2,72,744 instead of Rs. 2,13,332, as given in para. 7 of that letter.

I have the honor to be,

Sir,

Your most obedient Servant,

M. C. MURZBAN,

Executive Engineer.

STATEMENT B.

Probable amount of saving on the amount at the present contract rates that would be effected by the gradual conversion of *ordinary* gas lights into incandescent gas lights, at the reduced rates offered by the Gas Co., in Mr. Penny's letter of 5th December 1894.

	Annual Lighting Charges.												Remarks.
	Of the ordinary gas lights as at present, at the revised rates.			Of the gas lights, (when the first batch of 1,238 ordinary gas lights are converted into incandescent gas lamps) at the revised rates.			Of the gas lights (when the second batch of 1,242 ordinary gas lights are converted into incandescent gas lamps) at the revised rates			Of the gas lights (when the third batch of 1,215 ordinary gas lights are converted into incandescent gas lamps, at the revised rates.			
	No.	Rate.	Amount.	No.	Rate.	Amount.	No.	Rate.	Amount.	No.	Rate.	Amount.	
Ordinary whole month lamps ...	723	83·00	60,009·00	350	83·00	29,050·00	113	83·00	9,379·00				The Bray's lamps are calculated at the rates now paid to the Gas Company.
Ordinary part month lamps ...	2,859	66·00	1,88,694·00	2,078	66·00	1,37,148·00	1,102	66·00	72,732·00				
Incandescent part month lamps..	....	...	.....	781	58·50	45,688·50	1,757	58·50	1,02,784·50	2,859	58·50	1,67,251·50	
Incandescent whole month lamps	...	...	.....	373	73·50	27,415·50	610	73·50	44,835·00	723	73·50	53,140·50	
Part month lamps round the Queen's Statue	16	66·00	1,056·00	104 incandescent part month gas lamps.			133 incandescent part month lamps.			133 incandescent part month lamp.			
		Present rates.											
Bray's Lamps. Apollo Pier, small size ...	7	120	840·00										
Apollo Pier, large size ...	8	...	2,793·00										
Wellington Fountain... ...	8	150·00	1,200·00		58·50 Present rates.	6,084·00		58·50	7,780·50		58·50	7,780·50	
Flora Fountain...	8	120·00	960·00										
Hornby Road	1	808·50	808·50										
Church Gate Street	1	...	612·00										
Prince's Dock	1	808·50	808·50	1	808·50	808·50							
Victoria Dock	4	441·00	1,761·00	4	441·00	1,761·00							
Queen's Road (Chaupati) ...	1	294·00	294·00	1	294·00	294·00							
Warden Road	1	808·50	808·50	1	808·50	808·50							
Wadia Fountain	...	...	1,200·00	...	...	1,200·00	...	...	1,200·00	...	...	1,200·00	
			2,61,847·50			2,50,261·00			2,38,711·00			2,29,372·50	

		Present amount.	Amount at reduced rates.	Annual saving.
The saving effected during the 1st year.....Rs.		2,83,350	— 2,61,848 = Rs.	21,502
,, ,, 2nd ,, ... ,,		2,83 350	— 2,50,261 = ,,	33,089
,, ,, 3rd ,, ... ,,		2,83,350	— 2,38,711 = ,,	44,639
,, ,, 4th & each of the succeeding years... ..... ,,		2,83,350	— 2,29,373 = ,,	53,977
Total saving effected during 10 years = 21,502 + 33,089 + 44,639 + (7 × 53,977) = Rs.				4,77,062
Deduct initial cost of conversion... ,,				2,04,325
Net saving ,,				2,72,741

M. C. MURZBAN, Executive Engineer.

APPENDICES.

BOMBAY MUNICIPALITY.

No. 20798 OF 8-12-94.

TO THE MUNICIPAL SECRETARY.

Below, Executive Engineer's Nos. 17922 of 5-12-94, and 17991 of 6-12-94.

I can now amend the figures contained in my memo. of 28th ultimo, and supply the Committee with figures which have some claim to finality.

The charge at present budgetted for on account of gas lighting is Rs. 2,84,394, exclusive of contingencies. This is based on a rate of Rs. 90·67 per annum for a full month lamp burning 3,869 hours and Rs. 71·66 per annum for a part month lamp burning 3,073½ hours.

The Manager of the Gas Company proposes to extend the hours of lighting so that a whole month lamp shall burn for 3,907 and a part month lamp for 3,102 hours at a very small extra charge. The Executive Engineer supports the proposal, with which I also concur.

The Manager of the Gas Company offers, in consideration of a ten years' contract being entered into, to modify the present rates for ordinary gas lamps by reducing that for a full month lamp from Rs. 90·67 to Rs. 83, and for a part month lamp from Rs. 71·66 to Rs. 66.

For incandescent lights the Manager now offers the following terms :—

For a whole month lamp.....Rs. 73·50
For a part „ „ ..... „ 58·50

The rates first quoted by him were Rs. 74·50 for the former and Rs. 60·75 for the latter.

If the present number of lamps were lighted on this basis, the whole of the lamps having been converted into incandescent lamps, the annual charge would be Rs. 2,29,372·50 against Rs. 2,84,394 now paid, and Rs. 2,61,847·50 to be paid under the revised rates on ordinary gas lamps under a ten years' contract, showing a saving per annum of Rs. 55,021·50 in the former case and Rs. 32,475 in the latter.

Mr. Murzban has, however, given his reasons for thinking that for incandescent lights the charge ought not to exceed Rs. 68·40 for a whole and Rs. 55·20 for a part month lamp, and I do not see myself how the calculations by which he arrives at this result and which are given in his No. 17922 of 5th instant, para. 6, are to be impugned. Supposing these rates to have been agreed to, he annual charge will be—

Whole month lamps ..... Rs. 49,453·20
Part month lamps ..... „ 1,66,358·40

Rs. 2,15,811·60

This would give a saving as compared with the present annual charge of Rs. 2,84,394 of Rs. 68,583, and as compared with Rs. 2,61,847 (charge for ordinary gas lamps on a ten years' contract) a saving of Rs. 46,036. I have omitted decimal fractions. It is for the Committee to consider whether Mr. Murzban's rates should not be offered to the Gas Company or whether some compromise between those rates and Mr. Penny's should not be offered as an ultimatum. As I have just remarked, I am unable to see how Mr. Murzban's calculations can fairly be got over.

If the Gas Company refuse to entertain Mr. Murzban's rates, or such a compromise on them as the Committee may consider fair, (though no compromise is fair under which we pay more than the market value of the article) we must face the fact that we shall have to resort to kerosine oil. The only point, as far as I know, in which I differ from Mr. Murzban on the entire question is that he takes the candle-power of the duplex kerosine oil burner at "16 to 18"—while I should take it at 18. The saving which would be effected by the use of kerosine oil on the basis of Rs.5 a case, is shown in Mr. Murzban's report of 5th inst., para. 9, and is so great as to help the Corporation on a great way towards introducing electrical lighting if they chose.

I hope, however, that we shall not have to resort to this alternative.

I append a statement marked B" which shows what the annual saving will be as compared with present cost and as compared with the cost of ordinary gas lamps at the revised rates for the three years during which the conversion will be in progress and afterwards.

H. A. ACWORTH,
Commissioner.

8th December 1894.

STATEMENT B.

Probable amount of saving on the amount at the present contract rates that would be effected by the gradual conversion of ordinary gas lights into incandescent gas lights, at the rates mentioned in para. 6 of the Executive Engineer's No. 17932 5-12-94.

	ANNUAL LIGHTING CHARGES.												REMARKS.
	Of the ordinary gas lights as at present, at the revised rates during the first year.			Of the gas lights (when the first batch of 1,258 ordinary gas lights are converted into incandescent gas lamps) at the revised rates.			Of the gas lights (when the second batch of 1,242 ordinary gas lights are converted into incandescent gas lamps) at the revised rates.			Of the gas lights (when the third batch of 1,215 ordinary gas lights are converted into incandescent gas lamps) at the revised rates.			
	No.	Rate.	Amount.	No.	Rate.	Amount.	No.	Rate.	Amount.	No.	Rate.	Amount.	
Ordinary whole month lamps ...	723	83·00	60,009·00	350	83·00	29,050·00	113	83·00	9,379·00	...	...	.....	The Bray's lamps are calculated at the rates now paid to the Gas Company.
Ordinary part month lamps ...	2,859	66·00	1,88,694·00	2,078	66·00	1,37,148·00	1,102	66·00	72,732·00	...	...	.....	
					Ex. Engr's rates.								
Incandescent part month lamps...	...	.....	.....	781	55·20	42,111·20	1,757	55·20	96,986·40	2,859	55·20	1,57,816·80	
Incandescent whole month lamps	...	.....	.....	373	68·40	25,513·20	610	68·40	41,724·00	723	68·40	49,453·20	
Part month lamps round the Queen's Statue	16	660·00 Present rates.	1,056·00	104 incandescent part month gas lamps.			133 incandescent part month lamps.			133 incandescent part month lamps.			
Bray's lamps. Apollo Pier, small size ...	7	120·00	840·00										
Do. large size... ...	8	.....	2,793·00		55·20	5,710·80							
Wellington Fountain... ...	8	150·00	1,200·00										
Flora Fountain...	8	120·00	960·00										
Hornby Road	1	808·50	808·50					55·20	7,341·60		55·20	7,341·60	
Church Gate Street	1	.....	612·00										
					Present rates.								
Prince's Dock	1	808·50	808·50	1	808·50	808·50							
Victoria Dock	4	441·00	1,764·00	4	441·00	1,764·00							
Queen's Road (Chaupati)...	1	294·00	294·00	1	294·00	294·00							
Warden Road	1	808·50	808·50	1	808·50	808·50							
Wadia Fountain	...	.....	1,200·00	...	...	1,200·00	...	...	1,200·00	...	...	1,200·00	
			261,847·50			2,15,438·20			2,29,363·00			215,811·60	

		Present amount		Amount at reduced rates.		Annual saving.
The saving effected during the 1st year will be.		Rs. 2,83,350	—	2,61,848	=	Rs. 21,502
,, ,, 2nd ,,		,, 2,83,350	—	2,45,838	=	,, 37,912
,, ,, 3rd ,,		,, 2,83,350	—	2,29,563	=	,, 53,787
,, ,, 4th & each of the succeeding years		,, 2,83,350	—	2,15,811	=	,, 67,539
Total saving effected during 10 years = 21,502 + 37,912 + 53,787 + (7 × 67,539		— Rs. 5,86,171				
Deduct initial cost of conversion		,, 2,64,352				
Net saving...		3 81,819				

M. C. MERZBAN, Executive Engineer.

Appendix E.

PREFACE.

THE following report shows that the Corporation have provided a water supply sufficient for the needs of the inhabitants of the City and for its business: and that they are in a position to *give* any quantity of water, the only charge, and that the very moderate one of one anna per ton weight or 250 gallons, being for storage (for one year), carriage (over 50 miles) and delivery. Wilful waste by consumers or their gross carelessness is robbing the City of the benefits of its magnificent investment and is precipitating a demand for further expenditure to the amount of 50 lakhs of rupees. It is to be hoped that a just system of charge may be adopted and unnecessary expenditure on Engineering works thereby avoided.

S. TOMLINSON.

7th July 1893.

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No. $\frac{W}{2712}$ OF 1893-94.

BOMBAY, *28th April* 1893.

FROM S. TOMLINSON, ESQ., M. INST. C. E., M. AM. SOC. C. E., F. R. MET. SOC., Water Engineer,

TO THE MUNICIPAL COMMISSIONER,

Through the Executive Engineer.

SIR,—I have the honor, in accordance with your instructions, to submit a report on the advantages and disadvantages of our present mode of charging for water supplied, as compared with the system of compulsory metering of all connections and charging at a fixed rate per 1,000 gallons, or, in brief, "on the supply of water by measure."

Subject matter of Report.

2. It will be necessary to consider first our resources as to water-supply and the probable cost of an increased supply, then the present expenditure and revenue; next, the probable future of our water-supply question, if (1) the supply be continued on the present system; or (2) if meters be generally enforced. The Report will conclude with a description of the different types of meters in use and the cost of applying meters to all connections.

Supply in the City.

3. The supply in the City as to quantity is determined by the four mains which bring in the water from the Lakes. These are:—

1. The Tansa 48″ main Supplied from Tansa Lake.
2. „ Vehar 32″ „ } Supplied either from the Vehar or
3. „ „ 24″ „ } Pawai Lakes.
4. „ Tulsi 24″ „ Supplied from Tulsi Lake.

I take as the object to be aimed at a constant supply of water at such a pressure as will enable water to be drawn at all times in all parts of the City and on all floors.

Discharging capacity of the Tansa 48″ main.

4. The discharge of the Tansa 48″ main, with a fall of 3·2 feet per mile, was determined by Mr. Clerke, when the pipes were perfectly new, to be 22 millions of gallons per day. This discharge will certainly diminish, unless the main be shut off periodically for internal cleaning and coating, so as to keep the inner surface of the pipe glossy and smooth. Mr. Clerke thinks the discharge will not go below 20 millions of gallons per day. I think it would be safer to take 18 millions of gallons as the probable discharge ten years hence.

Discharging capacity of the Vehar 32″ main.

5. The Vehar 32″ main (laid in 1856—1860) supplies Bhandarwada Reservoir. Its regular discharge is 6·2 millions of gallons daily by actual measurement of the water received into the Reservoir.

With reference to the concluding part of the preceding paragraph, I might observe that the discharge adopting the same data as give 22 millions for a 48″ pipe should give 8·84 millions for the Vehar 32″ pipe. It will be noticed that the actual discharge is 30 per cent. below that which would be expected from a new pipe, and if the Tansa 48″ should behave in a similar manner, its discharge would be only 14·7 millions per day.

Length, 72,005 feet; fall 255—189·5=65·5 „ Beardmore + 20 per cent.

6. As the Vehar 24″ main discharges direct from the Vehar filters into the 24″ main, and thence into the distributing mains, its discharging capacity cannot be determined by actual measurement; but calculating on a fall of 3 feet per mile, which is what, having regard to the very moderate elevation of our Lakes and Reservoirs above the City and the incalculable value of a high-pressure supply, I think all our mains should be designed for, its discharge may be taken at 3 millions of gallons per day (24 hours).

Discharging capacity of Vehar 24″ main.

7. The Tulsi 24″ main discharges into Malabar Hill Reservoir 4¼ millions of gallons per day. Calculated on the basis of a 48″ main discharging 22 millions of gallons per day with 3·2 feet head, the discharge should be 6 millions of gallons per day, the present discharge being 29 per cent. below the calculation for a new pipe.

Discharging capacity of Tulsi 24″ main.

8. The utmost supply that can be given into the City through the existing works is, therefore, now—

Maximum possible supply through present mains.

Tansa	48″	main	22	reducing to 18	
Vehar	32″	„	6¼	millions of gallons	
„	24″	„	3	„	„
Tulsi	24″	„	4¼	„	„
			35½	„	„

Any quantity, even if available in the Lakes, in addition to this, can only be supplied by the sacrifice of pressure, which is to be avoided if possible; and even with this sacrifice can only be obtained through the Vehar and Tulsi mains, for the hydraulic circumstances are such as to prevent an increase of quantity from the Tansa main.

9. The Tansa Gathering Ground, including Lake 52·5 square miles or 33,600 acres, may be relied upon to yield an average of 100 millions of gallons per day, if its monsoon flow be adequately stored. The present Lake may be relied upon to store sufficient,—about 18,500 millions of gallons—to provide a supply of 45 millions of gallons daily; and if raised to its full height as designed, 425 T. H. D., would be reliable for a supply of 65 millions of gallons daily. It would then contain above lowest outlet 35,000 millions of gallons.

Capacity of Head Works.—Tansa.

10. The Vehar Gathering Ground, Lake 1,400 acres, above Lake, 2,500 acres, may be relied upon to yield an average available supply of 9½ millions of gallons per day. The Lake, containing when full 11,425

Capacity of Head Works *continued.*—Vehar.

millions of gallons and 7,654 millions of gallons above the level of the present channel to the outlet tower, is adequate to store what the Gathering Ground on the average will yield—about 4,800 millions of gallons.

Capacity of Head Works *continued.*—Tulsi.

11. The Tulsi Gathering Ground, Lake 331 acres, above Lake, 1,383 acres, may be relied upon to yield an average of 4¾ millions of gallons per day. The Lake, containing when full 2,306 millions of gallons, is fairly adequate to act as a storage for this quantity.

Capacity of Head Works *continued.*—Pawai.

12. The Pawai Gathering Ground, Lake 365 acres, above Lake, 1,335 acres, may be relied upon to yield an average of 4½ millions of gallons per day. The Lake, containing 696 millions of gallons is not an adequate reserve for this supply. It was designed to be used as an auxiliary to Vehar, entirely or partially dispensing with its supply for a time. Pawai and Vehar cannot be fully utilized by the 32″ and 24″ mains without sacrifice of pressure or, what is equivalent, extra cost for pumping.

If the large steel main were laid in place of the 32″ Vehar main, then the steel main and the 24″ main would discharge both the Vehar and Pawai supplies without undue loss of head, because the small loss by friction in the large steel main would increase the available pressure at Kurla for entering into the 32″ main, and so increase the discharge of Vehar water either into Bhandarwada Reservoir or the City direct at equal head.

Summary of capacity of Head Works.

13. The gathering grounds can thus be relied upon to supply on the average—

Tansa...	...	...	100	millions of gallons daily
Vehar	...	...	9½	„ „
Tulsi ...	...	...	4¾	„ „
Pawai	...	...	4½	„ „
			118¾	„ „

Cost of works for increasing supply to City.

14. The Vehar and Tulsi works are fully developed, and no increase of quantity can be relied upon from them. The Pawai supply would be developed by the laying of the proposed steel main from Vehar to Kurla, which is intended to serve the triple purpose of—

1. Supplying water from Vehar (or Pawai) during any stoppage on the Tansa Duct, so as to maintain the supply into the City.
2. Acting as a main for daily use in equalizing the pressure in the Tansa main at Kurla. During the night any surplus quantity would be passed into and stored in Vehar, and supplied thence during the day when the demand is so much greater.
3. The development of the Pawai supply by gravitation.

Besides effecting these objects, it will daily supply the 32″ main at Kurla, the 32″ between Vehar and Kurla being removed and relaid in the City where large distributing mains are required.

To these purposes of the steel main will probably be added another in future, that is, the bringing into the City of the further additional supply from Tansa, which might be poured into Vehar and supplied as required *via* the steel main to the City. This would save duplicating the Pawai siphon and the siphon from Ghatkoper to Kurla—a total of 5 miles—and probable cost Rs. 9 lakhs. The cost of the steel main and distribution mains in the City based on present rates is Rs. 14 lakhs. As present rates compared with those in the past are very favourable, it will be better to take the figures of the original estimate of 16 lakhs, and provide for interest and sinking fund payments accordingly on this account.

Cost of works for increasing supply to City *continued.*

Duplication of Tansa pipe line.

15. When the time comes for a further supply, *i.e.*, after the Tansa (one main), Vehar, Tulsi and Pawai supplies are fully utilized, several projects might be considered, such as new works in Ewur Valley (requiring high dams and tunnels), new works at Kamun (requiring pumps), and the laying of the second Tansa pipe. For reasons which need not be entered into at length, I believe the decision would be to lay the second Tansa main, and the cost of this, supposing the water to be passed into Vehar, would be Rs. 30·6 lakhs up to Vehar and Rs. 9·5 lakhs from Kurla into Bombay. It is not improbable that this latter part will be laid first.

Basis of calculation of cost of present supply.

16. The execution of the 16 lakhs scheme, referred to in para. 14, appears to me to be now called for for the proper development and reliability of the Tansa supply and for the probable increased demand ; and interest and sinking fund will, therefore, be allowed for in calculating the cost of our present supply which is taken at 36 millions of gallons per day for the purposes of this calculation, assuming the steel main to be laid and allowing ¾ million deduction for maximum not being drawn in monsoon, as follow :—

Tansa (one main)	18
Vehar	9½
Tulsi	4¼
Pawai (when steel main laid)	4½
	36¾

Annual expenditure.

17. The annual expenditure on account of Water Department now stands as follows :—

Budget Grants for 1893-94.

	Rs.
Establishment and labour	1,55,424
Materials	35,000
Contingencies	9,500
Annual provision set aside for renewals of old mains	1,00,000
	Rs. 2,99,924

Table No. I.

Interest and Sinking Fund on Loans debitable to Water Works.

Nature of Loan.	Date when raised.	For what term.	Rate of Interest.	Amount of Loan.	Balance due 31st March 1893.	Budget Estimate, 1893-94.		
						Interest.	Sinking Fund or Repayment.	Total.
				Rs. a.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Vehar Water Works Dept.	30th June 1863 ..	60 years from Jan. 1893.	4 per cent...	37,30,053 0	25,71,581 3 7	1,03,295 2 2	10,704 13 10	1,14,000 0 0
Consolidated Tulsi Loan	1st Feb. 1877 to 31st Dec. 1880.	30 years ..	4½ per cent.	39,73,695 10	20,73,091 15 1	1,32,607 10 5	1,09,842 10 1	2,42,460 4 6
10 Lakhs W. W. (Bhandarwada) out of Rs. 26,94,000 Drainage Loan.	1st Dec. 1878.	40 „ ..	5 per cent...	10,00,000 0	8,37,787 10 10	41,989 6 2	16,332 9 5	58,321 15 7
Rs. 18,98,921 W. W. portion of 44 lakhs Sanitary Works Loan.	1st July 1885 ..	40 years or less than 40 years.	5 „ ..	18,98,921 0	16,82,702 15 4	84,135 2 4	26,779 1 8	1,10,914 4 0
Rs. 1,90,389 of 7 lakhs Sanitary Works ..	1st Feb. 1888 ..	40 years ..	5 „ ..	1,90,389 0	1,90,389 0 0	9,519 7 2	1,631 14 6	11,151 5 8
Rs. 85,000 of 12 lakhs Queen's Road Sewerage and Water-supply Improvement.	1st Jan. 1888 ..	40 „ ..	5 „ ..	85,000 0	85,000 0 0	4,250 0 0	770 2 8	5,020 2 8
Rs. 1,35,000 of 10,08,000 Markets and Miscellaneous Works.	Between 1st Nov. 1888 and 1st July 1889.	40 „ ..	5 „ ..	1,35,000 0	1,35,000 0 0	6,750 0 0	1,151 3 5	7,901 3 5
Rs. 9,20,000 Various Sanitary Works Loan	1890-91 and 1891-92 ..	40 „ ..	5 „ ..	9,20,000 0	9,20,000 0 0	46,000 0 0	7,622 13 9	53,622 13 9
Rs. 1,47,00,000 Tansa Works..	From 1886-87 to 1891-92..	Different Terms.	5 „ ..	1,47,00,000 0	1,47,00,000 0 0	7,35,000 0 0	42,000 0 0	7,77,000 0 0
				2,66,33,058 10	2,40,06,462 12 10	11,63,446 12 8	2,16,844 5 4	13,80,291 1 7

Payments on account of Loans.
As per statement following Rs. 13,80,291-1-7.

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	Rs.	a.	p.
Budget Grants	... 2,99,924	0	0
Interest and Sinking Fund	...13,80,291	1	7
Proportion of General Superintendence—Actual 1891-92	... 23,878	8	1
Do. Assessment and Collection Charges ...	... 24,866	11	8
Do. Executive Engineer's Establishment ...	... 10,543	4	4
Total Expenditure...	Rs. 17,39,503	9	8
Add—Interest and Sinking Fund for 16 lakhs at 4 per cent. Interest	80,000	0	0
* *Deduct*—Probable saving by conversion of Tulsi 4½ per cent. to 4 per cent.	15,000	0	0
	Rs. 65,000	0	0
	Rs. 18,04,503	9	8
Expenditure taken as basis of calculations for cost of present supply	...Rs. 18,10,000	0	0

18. These figures enable us to determine the cost per 1,000 gallons of the gross water-supply. Taking the quantity at 36 millions of gallons daily and the expenditure at Rs. 18,10,000 per annum, the price per 1,000 gallons is 2·2 annas. A considerable part of the total supply does not, however, yield any revenue. Deductions must be made for various public purposes, and these may be taken as follows :—

Cost per 1,000 gallons.

	Galls. daily.
Supply to public fountains, 176 × 3,000	528,000
Street watering	750,000
Flushing sewers, Public latrines and urinals } Figures supplied by Mr. James. }	281,000
Drain cleaning	19,000
Extinction of fires, say	25,000
Flushing out water mains and fire practice with hydrants ...	15,000
Leakage on Municipal Mains, Fire Hydrants and sluice valves at 10 per cent., of total supply	3,675,000
Free supplies to Municipal Contractors	5,000
	5,298,000
	Say 5½ millions.

This reduces the net quantity available for conversion into revenue to 30½ millions of gallons daily, and raises the cost price to 2·6 annas per 1,000 gallons. Five per cent. should be allowed for loss on meter measurement if inferential meters be used having 29 millions of gallons daily as the revenue producing quantity, the net cost being 2·75 annas per 1,000 gallons.

19. The progress in the total of the revenue during the past few years has been very satisfactory. The figures are as follow :—From 1861 to 1893, 32 years. Dividing this period into 4, the increase in the first 8 years' period, was 928 per cent. ; in the second a decrease of 33 per cent. ; in the third an increase of 93 per cent., and in the last, an increase of 136 per cent.

Revenue.

* The actual result is now known, and gives a saving of Rs. 60,000 more than here allowed ; but as it appears probable there may be an early expenditure for new filtration works, and as it may be considered by some that the allowance for cost of meter system has been under estimated, I prefer to leave the figures as drafted between the 28th April and 3rd May.—S. T.—7-7-93.

TABLE No. II.

Water Revenue.

	Meter and Compounded Sums Demand.	On Value Demand.	Total actual Revenue from all sources.	Remarks.
1	2	3	4	5
		Rs.	Rs.	
1861	18,453	27,103	45,620	For 1861—1868 *see* page 6, Annual Report of the Assessor and Collector for the year 1872.
1862	13,451	50,361	63,812	
1863	23,120	86,406	1,09,526	
1864	40,532	2,39,070	2,80,602	
1865	71,642	3,00,288	3,71,930*	* Water rate 5 %—1st 100 „ 2¼ —2nd100 „ 1¼ —3rd 100
1866	1,83,104	2,35,713	4,18,817	Meter rate, Re. 1 per 1,000 gallons.
1867	1,71,752	2,27,007	3,98,760	
1868	(*a*)2,59,395	2,34,032	4,59,118	(*a*) Includes 156,680 for Government. Apparently arrears.
1869	1,19,679	2,52,046	3,62,998	
1870	1,12,264	2 68,917	3,66,986	
1871	1,09,589	2,78,393	3,57,578	
1872	1,10,394	2,81,247	4,07,835	
1873	1,13,043	2,87,955	4,00,639†	† Water rate reduced to 3½, 2 and 1 per cent.
1874	96,262	2,05,714	3,63,087	
1875	97,018	2,04,103	3,00,212	Meter rate As. 12 per 1,000 gallons. Government As. 8 per 1,000 gallons.
1876	1,09,172	2,02,466	3,08,377	
1877	1,04,554	2,09,218	3,11,823	
1878	1,16,329	2,24,031	2,92,780	
1879	1,51,128	2,16,572	3,54,798	
1880	2,08,356	2,35,618	3,90,703	
1881	2,54,725	2,38,421	5,24,819	
	12	months.		
1882-83	2,74,847 3 83,386	2,44,967 months. 62,683	6,70,677	15 months.
1883-84	3,08,556	2,55,302	5,47,647	
1884-85	2,88,399	2,63,555	5,96,123	
1885-86	2,98,363	3,50,042	6,65,370‡	‡ Water rate made uniformly 4 per cent.
1886-87	4,01,695	3,68,639	7,74,651§	§ Includes water supplied to Municipal properties.
1887-88	4,39,451	4,00,024	8,83,724	
1888-89	4,84,424	4,26,501	9,64,634	
1889-90	5,37,443	5,66,878	11,23,006‖	‖ Water rate levied on all properties within 500 feet of main, whether having connections or not.
1890-91	5,32,928	5,94,669	11,49,198	
1891-92	6,12,880	5,86,339	11,81,429	
1892-93	6,73,804	5,79,245	14,07,081	

Revenue per 1,000 gallons supplied.

20. The last year's demand for revenue (1892-93) of Rs. 12,53,049 is equal, on a daily supply of 29 millions of gallons (Tansa, 17; Vehar, 8; Tulsi, 4), to just under 2 annas per 1,000 gallons. The following figures show the consumption through meters. The demand for revenue from metered supplies was Rs. 6,73,804. It will be observed that the 3 millions (nearly) of gallons supplied through meters, about

10 per cent. of the total supply, yields nearly 54 per cent. of the total demand and 10·2 annas per 1,000 gallons. The balance, 26 millions of gallons daily, equal to about 90 per cent. of the total supply, yields only 46 per cent. of the total revenue and just under 1 anna per 1,000 gallons. If 5½ millions be allowed for free supplies and waste, the rate is about 1¼ anna per 1,000 gallons.

TABLE No. III.

Particulars of Meter Supplies, 1892.

Showing the total of quarterly consumption of water through meters during the year 1892 (January to December).

Wards.	1st Quarter, January to March.	2nd Quarter, April to June.	3rd Quarter, July to September.	4th Quarter, October to December.	Total.
A Private parties	21,069,480	22,325,230	19,272,240	26,169,220	88,836,170
B „ „	17,074,980	19,562,480	13,897,740	16,313,930	66,849,130
C „ „	2,923,350	4,007,360	3,444,345	3,770,850	14,145,905
D „ „	21,222,950	25,480,340	13,231,050	18,341,160	78,275,500
E „ „	46,223,440	57,119,170	38,729,925	42,241,710	184,314,245
F „ „	14,561,810	18,342,810	9,292,110	11,956,960	54,153,690
G „ „	35,808,080	48,421,560	31,380,550	30,126,530	145,736,720
Kurla	6,119,570	5,542,740	2,431,100	3,403,500	17,496,910
Bandra	5,027,300	6,942,100	4,358,390	5,869,830	22,197,620
Government properties ...	33,302,160	40,424,580	37,569,960	44,623,540	155,920,240
Municipal „ ...	50,779,862	58,401,170	52,804,350	59,253,570	221,238,952
Total ...	254,112,982	306,569,540	226,411,760	262,070,800	1,049,165,082
Percentage ...	24·2	29·2	21·6	25·0	100
In 1891 ... { Gallons ...	247,985,570	295,090,578	182,328,500	225,147,407	950,552,055
In 1891 ... { Percentage ...	26·1	31·0	19·2	23·7	100
In 1890 ... { Gallons ...	231,521,703	245,412,087	159,422,273	222,270,560	858,626,623
In 1890 ... { Percentage ...	27·0	28·6	18·5	25·9	100

Supply in Hot Weather of 1893.

21. In the last fair season (November 1892 to May 1893) the circumstances of our supply have been—

1. About 20½ millions of gallons daily have been drawn from Tansa Lake. From 1 A.M. to 7 P.M. the whole flow has passed on from Bhandup to the City. From 7 P.M. to 1 A.M. the Bhandup sluice has been partially opened, admitting 3½ millions of gallons to flow out in those six hours into Vehar Lake. [These hours at Bhandup correspond to 11 P.M. to 5 A.M. in the City, *i.e.*, the time of least demand, and were selected accordingly.] The full static head on the Tansa main at Kurla is 200 feet. The following figures show that the demand was so great that the full static head was not nearly approached :—

TABLE IV.

T.H.D. of Gauge at Kurla 48″ Sluice House 106.

	April.	lbs.	Nearest foot.
Fall due to partial flow into Vehar Lake.	12 Midnight 26″	46	106 feet.
	1 A.M.	48	111 „
	2 „	51	118 „
	3 „	57	132 „
	4 „	61	141 „
Increase due to supply from Bhandarwada and Malabar Hill Reservoir to City.	5 „	66	152 „
	6 „	64	148 „
	7 „	62	143 „
	8 „	62	143 „
	9 „	59	136 „
	10 „	54	125 „
	11 „	55	127 „
	12 Noon.	53	122 „
	1 P.M.	54	125 „
	2 „	54	125 „
	3 „	54	125 „
Increase due to supply from Malabar Hill Reservoir and Bhandarwada to City.	4 „	60	138 „
	5 „	66	152 „
	6 „	66	152 „
	7 „	66	152 „
	8 „	61	141 „
Fall due to partial flow into Vehar Lake.	9 „	49	113 „
	10 „	45	104 „
	11 „	44	102 „
	12 Midnight.	44	102 „

These figures are conclusive upon one point which is that the town would have absorbed the maximum Tansa supply at less than the full pressure in the city.

2. Vehar 32″ main discharged regularly into Bhandarwada Reservoir.

3. Vehar 24″ main discharged direct, and in April and May a well-filtered supply from Vehar filters.

4. Tulsi 24″ main discharged full into Malabar Hill Reservoir, except for a reduction of about ¼ million of gallons daily, due to the smaller temporary main laid at Gibbs Road slip.

5. The Bhandarwada Reservoir storage was exhausted in the hours 5 to 9 A.M. and 4 to 7 P.M.

6. The Malabar Hill storage was exhausted in the hours 5 to 10 A.M. and 4 to 7 P.M. to the City and constant to Malabar Hill District.

7. The pressure in the Island south of Grant Road during the night, 9 P.M. to 5 A.M., was reduced so that some of the Tansa supply might supplement that of Vehar in Bhandarwada Reservoir and assist the supply in the morning.

8. The consumption during the hours when full pressure was given everywhere was at the rate of about 55 millions of gallons per day, rising to a maximum of over 60.

9. The consumption during the night was at the rate of about 10 millions of gallons per day ; but, as just stated, the pressure was reduced in the City south of Grant Road.

In brief, it may be stated that the maximum supply, which can now be brought in, is not sufficient to maintain constant supply at high pressure, and it is probable that to-day the City would absorb the additional Pawai supply, together with the maximum from all other sources if continuous supply at full pressure were attempted.

Future demands.

22. It is natural and certain that the legitimate demand will increase. The extension of the drainage system and the increase of the number of houses and population will bring this about, but an equally important element is the fact established by general experience that the consumption per head increases and that the percentage of increased demand for water is much greater than the percentage of increase of population. For example in Glasgow between 1861 and 1871 the population increased 36·2 per cent. and the consumption 59·5 per cent. ; from 1871 to 1881 the figures were 21·7 and 31·7 respectively.

This will not be an unlooked-for event to those who study the increasing complexity of city life, the multiplication of concerns for its business and pleasure and the growing taste for gardens, baths and water carried sewage. The following table shows the increase in the number of connections.

TABLE No. 5.

Number of Connections.

Year.	Total number.	Increase during year.	Increase per cent.
1860	208	.....	.....
1861	1,061	853	410
1862	2,085	1,024	97
1863	3,422	1,337	64
1864	5,198	1,776	52
1865	6,490	1,272	24
1866	6,750	208	4·3
1867	7,526	776	11·5
1868	8,218	692	9·2

TABLE No. 5—*continued.*

1869	9,158	940	11·4
1870	9,643	485	5·3
1871	10,037	394	4·1
1872	10,315	278	2·8
1873	10,629	314	3·4
1874	10,879	250	2·4
1875	11,109	230	2·1
1876	11,434	325	2·9
1877	11,752	318	2·8
1878	11,908	156	1·3
1879	12,066	158	1·3
1880	12,494	428	3·5
1881	12,817	323	2·6
1882-83	13,244	427	3·3
1883-84	13,545	301	2·3
1884-85	13,909	364	2·7
1885-86	14,448	539	3·9
1886-87	14,865	417	2·9
1887-88	15,364	499	3·4
1888-89	16,098	734	4·8
1889-90	16,898	800	5·0
1890-91	17,634	736	4·4
1891-92	18,113	479	2·7
1892-93	18,486	373	2·1

In the Census years, since Vehar water was supplied, the figures have been—

	1860.	1872.	1881.	1891.	1893.
Population	816,562	644,405	773,196	821,764	843,068
	Vehar supply introduced. 32″	Vehar. 32″	Vehar 32″ and Tulsi 24″.	Vehar 32″ and 24″ Tulsi 24″.	Vehar 32″ and 24″ Tulsi, 24″ and Tansa 48″.
Daily supply in gallons	6,000,000 possible	7,900,000	12,000,000	16,750,000	29,000,000
Gallons per head	9·8	12·3	15·5	20·4	34·4
Number of connections	208	10,037	12,817	17,034	18,486
Supply per connection in gals.	3846·2	787·1	936·3	949·9	1568·7
Inhabitants per connection	3,926	64·2	60·3	46·6	45·6

These figures, bearing in mind the inadequacy of the supply up to the present, support the argument at the commencement of this paragraph, and as the dependence on the Municipal supply will undoubtedly increase and many wells will fall out of use, it appears quite reasonable to anticipate an annual increase of 500 in the number of connections and 750,000 gallons in the demand under the present system, being at the rate of 1,500 gallons per connection. This increased demand ought to be met. It might be met by further works increasing the supply as already discussed. It will be the purpose of the remaining part of this report to show that it can be met with greater certainty and with more beneficial results to the rate-payers of the city and the inhabitants also by the adoption of the system of sale by measure, securing at the same

time a more equitable rate for that part of the water required for trade purposes, which now pays, taking 4 annas as a fair selling rate for the whole supply available for the production of revenue, 200 *per cent. profit.*

23. *The objects to be attained are*—

Objects to be attained.

(1) An improvement in the supply, so that it may be every where constant at full pressure.

(2) A reduction of the rates for water used for trade purposes, on which 200 per cent. profit is now made.

(3) A reduction of the wilful and negligent waste, so as to postpone the necessity for new works to increase the total supply and enable the present mains to keep up full pressure.

One method of effecting a reduction of water-rates.

24. The difficulty of realizing the second object is the deficiency in the water accounts, the revenue being less than the expenditure in 1891-92 by Rs. 1,14,880 and in 1892-93 by Rs. 4,33,136. The future estimated expenditure being Rs. 18,10,000 per annum, it may be expected that there will be a surplus after about 9 years, if no changes be effected, and that the annually increasing surpluses might be devoted to the gradual reduction of the meter rates, leaving the water-tax unchanged. This view is a reasonable one, but it would take several years from now, probably 12 to 15, to reduce the charge for meter supplies even to 6 annas per 1,000 gallons, to which I think it is desirable, in the interests of all trade purposes and of general equity, the rate should be immediately reduced, subject to a minimum payment.

Waste should be checked.

25. The reduction so desirable in itself of the meter rate would, of course, tend to increase the consumption and so make the first object more difficult to attain and precipitate the necessity of an additional supply or its equivalent—a reduction of waste. It would probably be incorrect to say that an increased supply would be followed by still greater general carelessness, for that in many cases appears to be absolute already, but the pressure being greater would lead to greater loss from the same carelessness, and it is certain that our mains are quite incapable of feeding all the taps continually. The real question for consideration is, therefore, how to check waste from taps left open longer than necessary. The Executive may be trusted to attend to the waste from defective pipes and fittings and to secure their repairs, for which the Municipal Act makes provision. If this question can be satisfactorily solved, the further expenditure of 40 lakhs may be postponed for probably more than 15 years, an object surely of sufficient importance in itself to demand the adoption of all reasonable means for its achievement even if there were no other benefits.

Inspection not adequate. Data of supply really required.

26. There appears no ground for believing that the result can be achieved by the present procedure of giving notices to prevent waste. Wholesale cutting off of connections would not be tolerated; more

notices or warnings would have effect for perhaps a day ; and anything like the inquisition and pressure necessary for the employés of this department to stop this waste would, even if perfectly fairly applied, be deemed oppressive and would be generally condemned. The cost price per 1,000 gallons having been established at about 3 annas and the selling meter rate being taken at 4 annas, the price of 100 gallons would be 5 pies, and of 10 gallons ½ pie. What is a reasonable daily quantity for the domestic purposes of the large majority of our population? This question is not very easy to answer: the following data are the best that I know of :—

A. In Norwich, England, the total supply, less that taken for trade purposes, was 12 gallons per head per day in 1878 (Evidence, Stockton and Middlesboro' Arbitration).

B. In Nottingham, England, the inevitable waste and domestic use was 14 gallons per day (Evidence, Stockton and Middlesboro' Arbitration).

C. In his recent evidence before the Royal Commission on Water-supply Mr. Thomas Hawksley, Past President, Inst. C. E., has stated that he regards 25 gallons as sufficient *for all purposes* in London.

D. The total supply in Berlin in 1890 was 15 gallons per head per day; in Liverpool 16 gallons.

E. Districts in Berlin of poorer dwellings take only from 4 to 8 gallons per head.

F. Widnes, England, is supplied with about 8 gallons per head, 5 per cent. of the premises having water-closets and baths.

G. Districts in Bradford occupied by working classes were found to be supplied by 11·40, 8·17, 7·34, and 5·98 gallons respectively (reports of Mr. A. R. Binnie, M. Council Inst. C. E.)

H. Mr. E. Woods, Past President, Inst. C. E., found in London the consumption to vary from 3·2 to 12·6 gallons per head per day, the average in these cases being 5·9 gallons.

The following is extracted from the work on "Water Supply" by Mr. Joseph Parry, M. Inst. C. E., Water Engineer, Liverpool Corporation.

"The average volume of water required per head of the "population to give an adequate supply to a town depends upon "local conditions, in regard to which no general rule can be "laid down. The rate varies from 10 to 40 gallons per head per "day, of which a large proportion is waste, which no regulation or "supervision can wholly suppress.

"The quantity used in different classes of property in the same "town also varies considerably. In the annexed table I give a "few examples of the consumption for domestic and miscellaneous

"purposes in various classes of property in a large town where "water-closets are in general use and the supply is constant.

———	Population of district.	Total consumption per head per day.
		GALLONS.
District containing lowest class of old cottage property chiefly supplied by outside self-closing stand pipes	2,130	7·0
District containing a low class of old houses occupied by labouring population mostly supplied by a separate tap in each dwelling	5,800	11¼
District of old houses, small and middle class, with numerous shops	6,100	11¾
Another ditto ditto ...	5,300	14
District containing new cottage property chiefly occupied by clerks, artisans, and small shopkeepers	7,280	12
Ditto ditto ...	2,300	14½
Ditto ditto ...	3,900	10¼
District containing average middle class and small cottage properties	5,400	17¼
District containing best class of town houses (out of London)	2,100	18¼
Ditto ditto ...	2,000	21
Suburban district containing large houses with gardens	3,450	30
Ditto ditto ...	990	50¾

"The consumption in the districts comprised in this table was "obtained by measuring the water flowing into each district "through the distributing main; the figures, therefore, include "waste. Trade supplies through meters are not included.

"In court houses occupied by the labouring classes the con- "sumption is about 4¼ gallons per head per day when the supply "is drawn from an outside stand-pipe, and from 5 to 15 gallons per "head per day when there is a separate tap in every house. These "figures include water for water-closets common to all the inhabi- "tants of the courts. In large houses where baths are freely used "the consumption often reaches 70 gallons per head per day. These "rates per head are taken from actual measurement of the water "flowing through the house service pipes."

The following cases may be quoted in Bombay:—

I. The — Native Infantry were supplied in camp through meter. The official numbers were 9 officers, 19 native officers, 770 rank and file, and 126 followers; total 924. From the 28th February 1890 to 17th March 1890 the consumption was 102,400 gallons, or equal to 6,023 gallons per day. This is equal to 6·5 gallons per head per day.

II. From the 24th December 1892 to 9th January 1893 10,500 gallons were supplied to an encampment occupied by the — Conference visiting Bombay. The average number in camp, kindly supplied to me by the managers, was 130, arriving on the 28th December 1892 and leaving on the 4th January 1893. This gives an average of under 12 gallons per head per day.

III. The — battalion Native Infantry in 1891-92 consumed 2,479,770 gallons, and in 1892-93, 2,806,780 gallons. The number of persons supplied is on the average about 1,430. The consumption in 1891-92 was 4¾ gallons per head, and in 1892-93 with the improved supply 5½ gallons.

IV. In December 1886 the consumption under constant supply in the 2nd Nagpada District for all purposes, waste included, was only 14·9 gallons; in Kamatipura 15 gallons. These districts had been thoroughly inspected. [In the same month Warden Road used 106·8 gallons per head.] Population taken same as Census of 1881.

Dr. Parkes found by experiment "that the amount used by a man "in the middle class, who may be taken as a fair type of a cleanly "man belonging to a fairly clean household was—

	Gallons.
Cooking	·75
Fluids as drink, tea, coffee, water ...	·33
Ablution including a daily sponge bath which took 2½ to 3 gallons	5·00
Share of utensil and house washing ...	3·00
Share of clothes (laundry) washing (estimated)	3·00
	12·08

From all these it may safely be concluded that 10 gallons per head is a reasonable supply for all necessary purposes for that class of people upon whom it is said the supply of water by meter would fall so heavily as to restrict consumption. This quantity of 10 gallons per head per day would cost ½ pie, or 15 pies (1¼ anna) per month. It must be remembered that a less quantity than this will suffice, that any one is free to carry water from the public fountains, and that the great majority of the people of this class would have a practically free supplement to their household supply in the places of business where they are employed; when water is drawn from wells by this class of people 4 gallons or even less suffices. Dr. Parkes (in England) found the quantity to be from 2 to 4 gallons; in Mysore the quantity was found to be under 2 gallons per head.

In a future paragraph the relations of quantity supplied to death-rate will be examined. It does not appear possible to prove that a wasted supply contributes to public health, and it appears tolerably certain that the contrary is the fact.

27. There will not probably be any serious contention that those who use water for purposes of luxury—*e.g.* watering gardens and for large baths (a bath 4 feet 6 inches long by 1′ 9″ wide and only 6″ deep takes about 24 gallons)—should be subsidized out of the general taxes of the city; in other words, they may fairly be expected to pay cost price for what they use. The application of meters in such cases has shown us that the consumption is not unduly restricted, and I believe experience would prove that the general application of meters would not be followed by any injurious restriction in the use of water amongst any class of the people.

Meters do not injuriously restrict consumption.

28. In support of the opinion just stated, the example of Berlin may be quoted. The works belong to the City. The use of meters has been compulsory since 1878. Mr. Gill, the Engineer, in a paper read before the Institution of Civil Engineers, says that the application of meters has not injuriously restricted the consumption nor the general adoption of water-closets, baths and urinals.

Examples in support of above statement. Berlin.

In Naples the water is supplied by a Company, and the concession protects the consumers by enforcing a supply by meter. There are now over 50,000 meters fixed.

There is no case in Bombay, so far as I know, where, after a fair trial, it has been proved that the metered supply has brought about insanitary conditions of place or person.

Ground for the popular aversion to meters in Bombay.

29. There is an aversion to meters in Bombay due, I believe, to two things:—

1. An honest disbelief in the trustworthiness of a meter's record.
2. An aversion to be "reckoned up" in the matter of water supply, the feeling being that, because some of it is necessary, we ought to be allowed to do what we like with as much of it as we can get.

Objections examined.

30. No piece of mechanism, being the work of man, is infallible, but when that fact is borne in mind and reasonably applied, a water meter will be found to be worthy *primâ facie* of trust, and the large number of cases in which we have been called upon to examine the meter because "out of order" and upon examination have found that the meter has been doing its simple duty night and day supports that statement. Unfortunately a consumer has only to do with one or two meters, whereas we have the experience of as many thousands daily before us. A few instances may be cited:—

1. Complaint—Meter working when no water drawn and consumption overcharged 4 lakhs per month. Found a branch connection overlooked running night and day.
2. Complaint—Consumption increased suddenly 10 times. Found stop-tap quite out of order. Water going under ground. After repair, registration normal.

3. Complaint—Consumption abnormal. Examined and found meter working 20 gallons per minute when all known taps shut off. Somehow this was stopped afterwards without our knowing how, and registration fell to normal. No meter can work without water (or other matter) passing through it.

4. Complaint—Meter registering excessively. Found to register when taps shut; party informed that pipes leaking; statement disputed. On inspection found a broken pipe running to waste into sand soil.

Every complaint against a meter is examined, and it can safely be affirmed that no general injustice is done by them. I do not think therefore that the objection to meters generally is reasonable.

Change of sentiment as to water-supply.

31. Experience is working a great change in the general sentiment as to water-supply charges. It is found, as a matter of fact, that the charge on assessment is much more like an "acknowledgment" than a payment for service rendered. And the growing feeling is that, having regard to the increasing cost of additional supplies and the constant tendency to unreasonably increased consumption per head, water must be treated as any other article upon which money has been expended to place it where it is required; it must be paid for at so much per unit. In the case of the cost being incurred by the city, profit is not usually an element to be considered. The main points then are the avoiding of more than necessary expense for works of bringing water into, and afterwards as sewage getting it away from, the city.

No limit to consumption per head on assessed value system.

32. We have seen that, before Tansa was supplied, the city, without, so far as can be seen, increased mortality, but with much inconvenience managed with a supply of 16¾ millions of gallons daily. Now 29 are taken, and the cry is for still more. If another 20 were given, would the cry cease and would there be a surplus for legitimate future increase?

New York uses	1890 before new tunnel supply	67	gallons	per	head.		
	1892 after „ „ „	110 (?)	„	„	„		
Philadelphia	117	„	„	„			
Chicago	113	„	„	„			
Buffalo	155·0	„	„	„			
Cleveland	88	„	„	„			
Rome (both Municipal and Acqua Marcia) ...	128	„	„	„			

The American cities are now finding out that only by the application of meters can the increasing *per capita* consumption be checked—*e.g.*, Philadelphia with 1 million inhabitants now (1891) supplies 117 gallons per head per day. The rate has come up to this in stages as follow:—

1878	55	gallons	per	head.
1880	57	„	„	
1882	63	„	„	
1888	83	„	„	
1890	110	„	„	
1891	117	„	„	

To meet this demand, a pumping plant of no less than 220 millions of gallons has been, and an addition of 33 millions is about to be provided.

There is no reason to suppose that a reduplication of the Tansa pipe line would have any other effect than to encourage and further develop consumption. There is no virtue in consumption *per se* beyond a point very soon reached ; all beyond that point should be adequately paid for, the metered consumers are prepared to do so ; the unmetered consumers do not pay for the water wasted.

Probable results of fixing meters.

33. What are the probable results which would follow the fixing of meters in Bombay? Probably the consumption would fall to 12 gallons per head amongst the great mass of the population, say amongst 750,000. For the remainder an average of 40 gallons per head may be allowed. These figures allow for animals. The probable daily revenue producing consumption would then be—

750,000 × 12	=9,000,000
100,000 × 40	=4,000,000
Trade, allowing for increase if price lowered	5,000,000
Total	18,000,000

Giving an average supply of 21 gallons per head, the revenue at 6 annas per 1,000 gallons for trade purposes and 4 annas for all others would be—

	Total per annum. Rupees.
13,000,000 per day at 4 annas	11,86,250
5,000,000 Do. 6 annas	6,84,375
	18,70,625

or at a uniform rate of 4 annas per 1,000 gallons, Rs. 16,42,500. In other words the revenue as compared with the past year would be increased by 4·6 lakhs and the consumption decreased to 23½ millions per day, allowing for waste, etc., leaving a balance of 5½ millions sufficient to tide over the annual increased demand under the meter system for about 10 years, and there would be at the beginning a surplus after paying sinking fund and interest and maintenance charges including Rs. 45,000 for interest and sinking fund on meters.

If and whenever the total quantity of water, 36 millions of gallons daily, were distributed under this system, the net quantity for yielding revenue being 29 millions, 7 millions being allowed for waste, public fountains and sanitary purposes, and under registration the revenue at 4 annas only per 1,000 gallons would be Rs. 26,46,250 per annum. The surplus revenue, 8⅓ lakhs, say 8 lakhs allowing for expense of meters, their fixing, repairs, and establishment, would suffice to pay the interest at 4 per cent. and sinking fund, on 160 lakhs of rupees or four times the amount

required for the second Tansa main. The balance of surplus revenue might be applied to a further reduction in the price of water.

From a financial and sanitary point of view the meter system commends itself, for it is not reasonable to suppose that at the very low rate at which we are able to supply the water there would be such restriction as to produce insanitary conditions of person; the volume of sewage to be dealt with would be reduced and the financial burden of getting rid of it by pumping would also be reduced.

Evidence in support of above paragraph.

°34. It may be well to support the opinions here expressed by reference to experience elsewhere. At Detroit, U. S., America, in 1888 the consumption per head was 204 gallons. It was found almost impossible to keep pace with the increasing demand, and the partial fixing of meters was decided upon. Between 1888 (with 48 meters) and 1891 (with 1,239 meters) about 1,200 meters were fixed. The practical effect is shown by the following figures :—

Consumption per head in 1888	204 gallons.
Do. do. 1891... ...	144 „
Decrease	30 per cent.
Number of services in 1888	31,821 gallons.
Do. Do. 1891	43,727 „
Increase	25 per cent.
Operating expenses in 1888	101,019
Do. do. 1891	95,592
Decrease	5 per cent.
Total quantity pumped in 1888 ...	14,380, 166,670 gallons.
Do. do. 1891 ...	12,057, 261,236 „
Decrease	16 per cent.
Population in 1890	205,876

These figures were altered in 1892 to 140 gallons per head, 46,618 services, and 2,061 meters.

In America consumption can only be checked by meter.

35. Except where meters are largely used, the consumption in American cities approximates 100 gallons per head per day. In the largest cities the supply exceeds 100 gallons and tends to still further increase—*e.g.*, in Philadelphia the population in 1882 was 890,000 and the consumption per head 63 gallons; in 1890, 1,046,000 and 110 gallons; in 1891, 1,071,672 and 117 gallons respectively. In Chicago in 1891 it was 113 gallons. In neither of these cities are meters largely used. Speaking generally it may be said that the experience of the United States is that the consumption is inversely as the percentage of taps metered; out of the 50 largest cities only 2 of the 19 using over 100 gallons per head per day had 5 per cent. of the taps metered, whilst of the 19 using less than 75 gallons only 5 had less than 5 per cent. metered and the lowest consumption had 75 per cent. metered.

Experience in Berlin.

36. In Europe the example of Berlin may be quoted. In 1865 " the waste of water was excessive," nor could it be prevented or even checked by house inspections. The power existed to cut off the supply; yet this, even

in cases of gross persistent abuse, had to be exercised "with great discretion" (Gill "On sale of water by meter in Berlin"—*Proc.*, Inst. C. E., Vol. 107). The use of meters was encouraged; in 1873 the works passed from the hands of the Company into those of the City, and since the end of 1878 the use of meters has been compulsory.

In 1865 the consumption per head was			40·3 gallons
„ 1870	Do.	do.	26·4 „
„ 1874	Do.	do.	22·0 „
„ 1877	Do.	do.	17·6 „
„ 1890	Do.	do.	15·2 „

Now (1890) Berlin with 1,396,963 inhabitants and a highly developed system of baths, urinals, and water closets (17,000, 25,000, and 180,000 respectively) has a constant supply of 15·2 gallons per day. Other German towns bear out the U. S. experience, although the quantities are more moderate, Hamburg and Köln having less than 10 per cent. of supply metered and use 46·2 and 34·8 gallons per head. Hamburg has now determined to adopt meters. In Dresden, where half the supply is metered, the consumption is only 17·6 gallons per head. Vienna, after its new works were opened, gave a supply on value, but has now adopted meters.

Experience at Abingdon, England.

37. In England, Abingdon has the meter system with the remarkable result that the consumption is only 4·08 gallons per head, even those entirely dependent on the town supply taking only 3·92 gallons for domestic purposes. Abingdon is only a small place however of just under 7,000 inhabitants.

Experience in Paris.

38. In Paris the supply is by meter, and there are (1891) over 64,000 meters in use. Mr. G. Bechmann, Chief Engineer, writes as follows :—"The use of water "meters has furnished excellent results in Paris, and he was con- "vinced that meters would find increasingly numerous applica- "tions in the distribution of water. A constant supply at high "pressure had been provided in Paris up to about 1888, with de- "livery by gauge to manufactories, and without restriction to "private houses which were rated according to valuation based "upon the number of inhabitants, horses and carriages and the "extent of courts, gardens, etc. The unlimited supply greatly "favoured waste, which was much increased directly the supply of "clear, fresh spring water, both wholesome and agreeable, was "rendered general. During the summer of 1881 the consumption "on some days rose to three times the mean, and the reservoirs "were emptied in a few days. To control this alarming waste, "the Municipality introduced the meter system, which was render- "ed compulsory, in place of rating by valuation. The public being "accustomed to gas meters, accepted this innovation without mur- "mur." This testimony applying to a city of over 2 millions of inhabitants is extremely valuable and worthy of most careful consideration.

39. The death-rate of a city depends on so many circumstances that conclusions should be very carefully drawn. I do not, however, see how it is possible to contend, in the face of the following testimony, that the meter system causes a high death-rate.

Meter supplies not accompanied by high death-rates.

1. In Berlin, meters compulsory from 1878.

	Death-rates per 1,000.	
1873	30·00	Meters not compulsory; consumption per head 1874, 22 gallons; 1877, 17·6 gallons.
1874	30·20	
1875	32·92	
1876	29·75	
1877	29·68	
1878	29·74	
1879	27·62	Meters compulsory.
1880	29·70	
1881	27·27	
1882	25·82	
1883	28·92	
1884	26·33	
1885	24·38	
1886	25·64	
1887	21·86	
1888	20·29	
1889	23·01	
1890	21·52	

2. In Abingdon Mr. Winship said :—"*It might* be assumed "that a small consumption of water would lead to a rather large "death-rate, but that was not the fact." From the medical officer's returns the figures were—

"1873—80, before Water-works established ... 21·43 per 1000.
Zymotic ... 2·71 „ „
"1880—87, after Water-works established ... 17·7 „ „
Zymotic ... 1·5 „ „

"The meter system in Abingdon had enabled a somewhat doubt "ful supply *in regard to quantity to be amply sufficient for* "domestic and trade supplies, *street watering, repairs to highways* "and sewer flushing.

3. In Paris the deaths were—

	Deaths.	Population.	Death-rate.
1876	48,579	2,037,232	23·8
1877	47,509	2,083,592	22·8
1878	47,851	2,129,952	22·5
1879	51,095	2,176,312	23·5
1880	57,466	2,222,672	25·8
1881	57,066	2,269,032	25·1
1882 Meters introduced ...	58,702	2,284,135	25·7
1883	56,707	2,299,238	24·7
1884	56,970	2,314,341	24·6
1885	54,616	2,329,445	23·4
1886	57,092	2,344,550	25·3

In India it will no doubt often be found that a very scanty supply is accompanied by a high death-rate, the cause of the high death-rate

being the bad *quality* of the water, not want of quantity. It need not be added that quality and quantity are distinct matters, and if there would be any difference in Bombay in the quality of a smaller as compared with a larger supply, it would be in favour of the smaller, for the filters would do their work better and the lakes would overflow more freely.

Bombay a favourable city for applying meters.

40. Do the particular circumstances of Bombay afford a favourable case for the application of meters? Yes: a very favourable case. An ideal case would be that in which the whole supply was taken by one consumer, thereby necessitating only the outlay for cost of one meter. The opposite extreme might be taken as that in which there were as many connections to be metered as gallons of water supplied daily. Bombay, compared with most other places, is very favourably situated. For example.

TABLE No. 6.

City.	Population.	Number of connections.	Number of persons per connection.	Daily quantity supplied. Gallons.	Average number of gallons per connection.
Bombay	843,068	18,486	45·6	29,000,000	1,569
All supplies metered,					
Berlin	1,388,530	21,031	67	20,978,240	998
Hamburg	543,600	18,000	30	25,187,600	1,379
Munich	298,000	7,494	40	6,081,553	811
All supplies metered,					
Vienna	705,402	11,515	61·3	8,536,000	741
East London Co., 1888 ...	1,202,890	160,534	7·5	38,842,752	242
Average of London Cos.,					
Private	5,446,579	734,406	7·5	154,025,254	210
All supplies metered, Paris					
(August 1888)	2,344,550	164,000	36·7	42,577,028	665
Seville	60,000	6,019	10	1,236,840	205
Rome (Acqua Marcia Co).	360,000	16,105	22·4	26,520,000	1,646
Sydney	250,000	60,000	4·2	10,000,000	167
Melbourne	400,000	91,000	4·4	21,000,000	233
New York	1,515,301	108,884	13·9	121,000,000	1,111
Chicago	1,099,850	155,096	7·1	152,372,288	982

Details of meters required.

41. The total number of connections in Bombay is 18,486; of these, 1,426 are already metered. To complete the metering of the whole, we should require 18,800 meters of sizes. I estimate as follows allowing 10 per cent. for meters under examination, testing, repairs and reserve :—

½"	11,300
¾"	4,400
1"	2,900
1½"	200
Total...	18,800

All connections 2" and over are already metered. The calculations are based on the whole number being proportionate to those for the year 1886-87 to 1891-92, the preceding figures not being available.

Description of meters used.

42. Before estimating the cost of applying meters, the kind of meter must be determined upon. All the meters may be divided into two classes—positive and inferential. The positive meter, as its name indicates, is one which actually measures the water passing through it. The different designs provide for receiving and disposing of the water in different ways, but the principle of measurement is common. The inferential meter is, as its name, too, indicates, one which does not actually measure the quantity of water passing through, but the mechanism is such as to compel all the water passing to propel a turbine or vane, and the number of revolutions of the vane indicates the quantity passing. To enter into a minute description of the various kinds of meters is probably here not necessary. The broad features of the discussion are that the positive meter is more accurate and more costly. The inferential meter is more compact and cheaper, but is liable to err in favour of the consumer. In a positive meter it is immaterial how slowly the water is drawn because it is actually measured, but in a vane meter, where the quantity is inferred from the number of revolutions, it is possible, by drawing off the water through the meter very slowly, to get some through without the evolution of sufficient energy to propel the vanes, for, of course, this motion, same as every other motion in this world, consumes energy, and the resistance to motion may be greater than the energy developed, in which case no motion takes place and the indication is then less than it should be. The comparative estimates of cost are given. Both types are improving by increased attention and perfected workmanship. From an administrative stand-point the most reliable meter is, of course, to be preferred. At present most of our meters are of the inferential type and they are more popular than the few positive meters, the size of the latter being objectionable in many cases where the space for fixing in staircases or rooms is limited. So far as the consumers are concerned, no injustice would be done by the use of inferential meters, and the defects, from the supplier's point of view, can be partly counterbalanced by attention and frequent examination. Having regard therefore to the great difference in cost, the inferential type will probably find favour.

Estimated cost of applying meters.

43. The estimate of cost of meters is—

Positive Type.				Inferential Type.		
Number.	Size.	Each.	Total.	Size.	Each.	Total.
11,300	⅝"	60	678,000	⅝"	25	282,500
4,400	¾"	80	352,000	¾"	30	132,000
2,900	¾"	100	290,000	1"	42	121,800
200	1"	130	26,000	1½"	70	14,000
18,800			13,46,000			5,50,300

The quantities allow about 10 per cent. for meters under examination, testing, repair, and probable increase in numbers.

Establishment required for reading meters.

44. The meters, in some cities read quarterly, should, I think, continue to be read monthly, so that any increased consumption would be detected early by the Inspectors even if neglected by the occupiers. The meter system would, I anticipate, greatly reduce the present work of the Sub-Inspectors and set them free to undertake the reading of meters. Taking the number at 20,000 would give a total of 1,000 daily for 20 days in the month. The Sub-Inspectors who could undertake this work are 25 in number; each one would have to read 40 meters daily, and this, I think, he could do besides attending to notices and waste detection on Municipal mains. The work of these 25 Sub-Inspectors would be checked by the 7 Ward Inspectors and the whole supervised by the Chief Inspector. I do not, therefore, anticipate that any increase in the number of the present distribution and waste prevention establishment would be required.

Repair, &c., of meters.

45. For fixing, removing, testing and repairing meters we should require an addition to our establishment and grant for materials. The total of these charges may be taken at 2½ per cent. on the cost of the meters. For a total of 5½ lakhs this would be Rs. 13,750 per annum. To deal with bursts, &c., we are compelled to keep a good staff, and it would be possible to strengthen this staff from the meter staff and the meter staff from the maintenance staff as press of work required.

Cost of meter installation.

46. The financial aspect of the meter system as to expense is therefore—

	Rs.
First cost Rs. 5½ lakhs + 50,000 for first fixings	... 6,00,000
Annual expense of Rs. 30,000.	
Staff and materials for repairs, examination, &c., say Rs. 15,000.	
Equivalent at 4 per cent. interest and 1 per cent. sinking fund to	... 3,00,000
Equivalent to total cost of	... 9,00,000

Annual expense, Rs. 45,000.

Taking the annual expense at Rs. 45,000, the cost is equal to about 1 pie per 1,000 gallons measured. Looked at in another way, it would increase the expenditure by Rs. 45,000, or total to Rs. 18,55,000 per annum, or by 2½ per cent.

Saving to other departments.

47. It must be remembered that the Water Department is now credited by other departments for supply given at 10 annas per 1,000 gallons, and this credit of Rs. 1,38,485 is included in the total revenue of Rs. 14,07,364. Under the meter system the estimated revenue is on 4 annas per 1,000 gallons, and the budget of other departments will therefore be relieved by Rs. 83,000 on present consumption, and the total expenditure to be met by taxes would be

reduced by Rs. 83,000—45,000 = Rs. 38,000, which must also be put to the credit of the meter system.

Recommended that meters be supplied free.

48. I should recommend that all meters be supplied and fixed at the expense of the Municipality, the price charged for the water covering the sum which might be charged for meter hire. This course has the following advantages :—

1. It saves consumers the expense of fixing the meter and the trouble of signing an indemnity bond for it and paying an annual bill for meter hire.
2. It saves the Municipality the preparation of say 20,000 bills per annum and the time of collectors taken up in presenting and collecting them. The Assessor and Collector will, I believe, bear me out in saying that the labour connected with this item of revenue at present is comparatively disproportionate to the amount thereof.

The amount of meter hire would be less than 5 per cent. of the total revenue, and there appears no advantage in making a separate business of it. Even now charitable, religious, and educational institutions and bungalows with gardens are treated on this system, and it works well. The presentation of the quarterly bills would be a constant reminder of the principle of meter measurement.

Discussion as to system for recovering payment.

49. A very important matter for consideration is the system to be adopted for recovery of payment for water supplied if meters are generally fixed. One method would be to abolish all water-tax or minimum payment and charge simply per 1,000 gallons consumed. A modification of this would be to charge per 1,000 gallons subject to a minimum payment. A third way would be to charge water-tax and allow a certain quantity of water therefor, presenting an extra bill for extra quantity consumed.

Importance of a minimum payment.

50. The fixed payment by way of minimum is so important for two reasons that it should not be dispensed with. The reasons are :—

1. Every property, whatsoever its nature and no matter whether on it or not water is generally consumed, is worth more because the city has a good water-supply ; it is therefore only fair that for that increased value the water revenue should receive benefit. To put it in another way, there is probably no property owner but would prefer to pay even the full water-tax with the present supply in the city rather than save the amount of that payment by the supply being stopped.
2. A fixed minimum payment will effectually prevent whatever tendency there might be to reduce the consumption below a sanitary minimum and so silence the only objection worthy of consideration which has been raised against the meter system.

51. In Adelaide a few years ago they were faced with a similar state of affairs. In the words of the Engineer, Mr. Oswald Brown, M. I. C. E.—"Having "reason to believe that the quantity of water consumed by different "houses bore little or no relation to the rates paid, a regulation was "made fixing the price of water at 1*s.* 6*d.* per thousand gallons and "allowing each rate-payer as many thousand gallons as were repre- "sented by the rate paid, any excess to be paid for in addition.

Adelaide System.

"Thus a consumer paying 30*s.* a year would be entitled to "20,000 gallons of water; if he consumed 25,000 gallons, the extra "5,000 would be charged at 1*s.* 6*d.* per 1,000 gallons; meters to "be fixed at the discretion and cost of the Water Works De- "partment. Meters were fixed on all services where it was "believed the consumption was in excess of the quantity due "in consideration of the rates. In two years the revenue had so "increased that it was possible to reduce the rate on assessment "(from 9 per cent.) to 5 per cent. and yet raise the net return on "cost of construction (from 2 per cent.) to 5 per cent. Since then "the price of water had been reduced to 1*s.* 3*d.* per 1,000 gallons. "The burden of providing the necessary funds for the support of "the works had thus been equitably adjusted, the amount con- "tributed by the small users had been reduced, and that paid by "large consumers increased to its just value."

52. The Bombay Municipal Act, section 197, enacts that "each of the property taxes shall be payable in advance in half-yearly instalments on each first day of April and each first day of October" and Section 201 enacts that "all the sums due for each half year for all "or any of the three property taxes by any one person on account "of one and the same property, shall be charged to such person "in one bill and shall be recoverable from him in the lump." Section 140—the property taxes are—

Provisions of Bombay Municipal Act 1888 as to Water-supply.

(*a*) "A water tax of so many per centum of their (buildings "and lands) rateable value as the Corporation shall "deem reasonable with reference to the expenses of "providing a water-supply for the city :—

(*b*) "A halalkhor tax.

(*c*) "A general tax."

The operation of Section 140 as to water-tax is limited by section 141 as follows :—"Subject to the provisions of Section 169, the water-tax shall be levied only in respect of premises—

(*a*) to which a private water-supply is furnished from or which are connected by means of communication pipes with any Municipal water work, or (*b*) which are situated in a portion of the city in which the Commissioner has given public notice that sufficient water is available from Municipal water works for furnishing a reasonable supply to all the premises in the said portion."

Section 169 enacts :—

(1) The Commissioner may (*a*) in such cases as the Standing Committee shall either generally or specially direct, instead of levying the water-tax in respect of any premises liable thereto under section 141 charge for the water supplied to such premises, by measurement, at such rate as shall from time to time be prescribed by the said Committee in this behalf ; (*b*) with the approval of the Standing Committee, compound with any person for the supply of water to any premises for a renewable term of one or more years not exceeding five, on payment of a fixed periodical sum, in lieu of the water-tax or charge by measurement which would otherwise be leviable from such person in respect of the said premises.

(2) The Standing Committee may, for the cases in which the Commissioner charges for water by measurement under clause (*a*), from time to time prescribe such conditions as they shall think fit as to the use of the water and as to the charge to be paid for water consumed whilst a meter is out of order or under repair ; and in each case in which a composition is made under clause (*b*) the said Committee may prescribe such conditions as to the use of the water as they shall think fit, provided that no condition prescribed under this sub-section shall be inconsistent with this Act or with any by-law made under this Act.

(3) A person who is charged for water by measurement or who has compounded for a fixed periodical sum shall not be liable for payment of the water-tax, but any sum payable by him on account of water and not paid when it becomes due shall be recoverable by the Commissioner as if it were an arrear of water-tax.

53. Section 170 excludes the Government and Port Trust properties from the operation of section 140 (water tax) and provides that Government shall not pay more than the minimum, and the Port Trust not more than the maximum, of the rates in force for supply by meter.

Same continued.

54. The system* I recommend is on the lines of the Adelaide system as follows :—

System recommended.

1. The levy of the water-tax at the rate of 2 per cent. upon all properties whatsoever, subject to the limitations of section 170 and section 141 (*b*) as follows :—

(1) Properties which are so situated that they cannot make a connection with a Municipal water work except by a service pipe exceeding 500 feet in length.

(2) All agricultural land, vacant lands and land occupied by trees.

---

* The Vienna system is an allowance up to 4·54 gallons per head supplied and extra charge for all beyond.

(3) Religious, charitable and educational institutions.

(4) Municipal properties.

2. The fixing of meters at Municipal expense to every connection for whatever purpose the water be used.

3. The charging at the rate of 4 annas per 1,000 gallons for all supplies regardless of purpose for which used ; bills to be prepared half-yearly in arrears and credit to be given for the amount paid in the common bill for water tax as above at 2 per cent.

Whether system recommended be legal under present Act.

55. I am not quite clear, however, that these proposals, if carried out under the present Act, would be strictly legal—that is, whether the Corporation, under section 140, can either levy an uncertain percentage or a certain percentage subject to increase in certain circumstances ; or the Standing Committee, by Section 169, can, whilst providing for at least the water tax as fixed being recovered, direct that the amounts due in excess as above might be recovered also ; or whether it would be legal to practically suspend the operation of section 140.

If there should be any difficulty in the way of amending the present Act to meet the above proposals if approved, I do not think there can be any doubt that it would be strictly legal for the Corporation to fix the water tax at as many per cent. as would yield a revenue equal to the expenses of providing the water-supply. Taking this at 18·1 lakhs, a water-tax of 10 per cent. would about yield the required sum, allowing on the one hand for Government and Port Trust properties which must be charged by meter and the exceptions referred to in the preceding paragraph, which would not be charged at all. The Standing Committee could then generally direct, under section 169 (1) (*a*), that any premises might be supplied by meter at annas 4 per 1,000 gallons subject to a minimum quarterly payment equal to half per cent. of the net assessed value of the premises. The effect of this procedure would be that all premises, unless supplied by meter, must pay 10 per cent. on valuation, and the consequence would be that the application for meters would be very general. The present resolutions for supply of trade premises by meter should continue in force, and if necessary, a supplementary resolution might be passed providing for the compulsory supply by meters where excessive consumption was proved.

Examples of inequitable charges in Bombay.

56. It will be appropriate here to refer to the established consumption in some cases in Bombay. The tax of 10 per cent. would meet the expenditure, but it would be no more equitable *per se* than any other percentage tax for, meters apart, some would continue to use much more than they paid for, and others less. The following examples show how inadequate and inequitable the present system is as between consumers and tax-payers.

Example I :—Thirteen bungalows, the occupiers of which complained of short supply before Tansa was introduced.

—	Average number of gallons per day.	Payment on assessment per day.	Daily consumption equal to payment of annas per 1,000 gallons.
		Annas.	
1 and 2 ...	15,953	8·1	0·5
» 3 ...	1,980	3·0	1·5
» 4 ...	2,200	5·2	2·4
5 ...	1,964	5·2	2·6
6 ...	2,052	5·9	2·8
7 ...	1,550	4·7	3·0
8 ...	1,176	4·0	3·4
9 ...	775	2·9	3·7
10 and 11 ...	1,295	5·1	4·0
12 ...	1,280	6·4	5·0
13 ...	918	4·7	5·1
Total ...	31,143	55·2	1·8

Example II :—That the payment by percentage on assessed value is not an equitable mode of charge is illustrated by the following example of 44 bungalows. The water consumed, valued at 6 annas per 1,000 gallons, would require percentage on assessed value as given :—

1·8	0·4	4·3	2·3	0·6	3·5
7·5	1·2	0·3	1·9	0·7	3·1
1·7	2·9	2·2	1·5	1·8	1·2
5·7	2·7	9·3	10·7	5·0	3·3
4·1	3·5	1·4	2·8	1·7	7·1
0·7	0·9	0·4	0·8	3·4	14·8
5·0	4·1	4·1	2·5	12·9	13·1
3·1	14·0		Average	4·3	

It will be noticed that in one case *0·3 per cent.* would suffice ; in another 14·8 per cent. is required, or practically a range of over 40 times, one paying 14 times too much, so that another may pay 3 times too little. These cases are in no way selected and the evidence they supply came in the ordinary routine work without any reference to this report.

Example III :——Chal in Street——Ward.

Complaint of short supply. Meters fixed ; consumption, 20,700 gallons per day ; assessed value, Rs. 12,062 per annum ; water tax at 4 per cent. equal to Re. 1 annas 5 per day ; payment for water used on assessed value, 1 anna per 1,000 gallons ; population supplied, 930 ; consumption per head per day, 22·3 gallons.

Example IV :—Chal No.——Road :—Tenants complained of short supply. 21 rooms, about 80 occupants ; assessed value, Rs. 1,344 per annum ; water-tax at 4 per cent. Rs. 4-8-0 per month.

Consumption was found to be—

1892	May...	69,000
„	June ...	70,000
„	July ...	94,000
„	August	87,000
„	September	110,000
„	October	71,000
„	November	128,000
„	December	104,000
1893	January	64,000
„	February	85,000
„	March	97,000
„	April...	67,000
	Total ...	1,046,000

Average, monthly 87,170 ; per day, 2,866. Average daily consumption per head 35·8 gallons ; average monthly value of water at 4 annas per 1,000 gallons, Rs. 21 as. 12. Payment of Rs. 4-8-0 per month on assessed value equal to per 1,000 gallons annas 0·82, say 10 pies.

These examples might be multiplied without difficulty, but it is scarcely necessary to do so because the fact of 20½ millons of gallons producing only 1¼ annas per 1,000 gallons proves that such examples must be very numerous.

Observations in support of recommendations.

57. A 2 per cent. tax is the minimum now in force for those who choose to take a supply by meter at 12 annas per 1,000 gallons. It is, I think, a reasonable tax for those premises which would be most likely to have no bills for excess—*e. g.*, banks, shops, offices, warehouses,—and it appears to have been accepted as a suitable concession, many such premises having taken metered connections on this basis. The reasons for the Municipality bearing the cost of meters have already been given in para. 48. The rate of 4 annas is that now charged for charitable, religious, and educational institutions ; it is an exceedingly moderate rate (1 anna per ton in weight), and as it has not been found too much for such institutions to pay, it is fair to assume that it will nowhere be found to be oppressive, except to those who waste water, and by oppression of some kind, such waste must, in the interests of the City, be reduced. From the data already given in para. 33 it is certain that an adequate supply could be given, and a revenue equal to the expenditure raised, by this system and have a reserve of water in hand to meet the future increasing demand. This reserve would, when used, bring in the additional revenue required to extend the works without increasing the price of water or taxes in any way, and so, *ad infinitum*, the works could be extended in future generations, and the money for such extensions would be produced in advance by the revenue from the water used.

58. The many questions to be considered have made this report a lengthy one, but the importance of the subject calls for most careful consideration. The Bombay Water Works are such as any city in the world might be proud of. Nature, developed by engineering, has enabled an abundant supply of water to be brought into the Island at a moderate expenditure, so that, if properly disposed of, the supply will be amongst the cheapest. On the other hand the sentiment that, because there is an abundant supply now, it is boundless and valueless would inevitably lead to further large expenditure. It is now practicable to adopt means such as those suggested, which will keep the consumption within a reasonable figure, will avoid the necessity of large expenditure on new works for many years, and will have accumulated the funds for those extensions when required without adding to the financial burden of the city. If this opportunity be lost, the wasteful habits will have become more deeply rooted, the consumption will unduly increase, new works will be demanded and executed without any adequate financial return, and, under far more unfavourable circumstances the meter system will eventually be adopted, as it has been in Paris, Berlin, and Vienna, and as the American cities, which have in vain struggled with a consumption rising from 25 to 50, 100 and 200 gallons per head, now find it necessary as the only means of affording a constant supply at high pressure. By the application of the perfectly fair principle of payment for value received we may now obtain the great blessing of a constant supply of pure water at a price within the reach of all and begin the accumulation without additional financial burden of the funds which will be required for additional works in future as the trade and population of this city increase ; and all these benefits will follow the stoppage of that waste which now benefits no one.

Importance of present opportunity for making a change being availed of.

59. I have not thought it necessary to explain any negatives—*e. g.*, why London is supplied on the assessed value system, and why the meter system has not "hitched on" yet in England ; suffice it to say that in the case of London the supply is given by Companies who are satisfied with the present system because the rating is so high, and that the popular movement by consumers was in favour of the meter supply. In many of the towns too, as has been shown in this report, the consumers do not take more than 4 or 5 gallons per head, so that they have achieved for themselves that which in other places meters only have been able to do. There are very many circumstances to be borne in mind in determining a question of this kind, and if, as I hope has been proved, the meter system is the right one for Bombay, it should be adopted. I can only add that having studied this question carefully for many years, and being personally acquainted with the works of most of the large cities referred to, and having had the benefit of conferring on the spot with the experienced officers of those cities, to whom I am deeply indebted, I am satisfied that the adoption of the system recommended

Conclusion.

will conduce to the best interests of the inhabitants of Bombay, both from the financial and sanitary points of view.

I have the honor to be,
Sir,
Your most obedient servant,
S. TOMLINSON, M. Inst. C. E.,
Water Engineer.

APPENDIX No. 1.

Extract from Table 21, page 35, Volume VII, Census of India, 1891.

Report of Mr. W. W. Drew, I.C.S., Provincial Superintendent, Census Operations.

Bombay City.

Average annual rate of increase 1872—1891 ...	·01288
Do. do: 1881—1891 ...	·00611
1891 (Census)	821,764
1892 (estimated on basis of 1872—1891)	832,348
1893	843,068
1894	853,926
1895	864,924
1896	876,064
1897	887,347
1898	898,776
1899	910,352
1900	922,077
1901	933,953

APPENDIX No. 2.

Details of New Connections made in Bombay.

—	½"	¾"	1"	1¼"	1½"	2"	3"	4"	5"	6"	Total.
1891-92 ...	384	178	116	...	6	3	8	3	...	...	
1890-91 ...	448	265	202	1	10	4	8	4	...	2	
1889-90 ...	588	196	156	5	12	8	9	2	...	2	
1888-89 ...	600	180	150	...	16	5	9	1	...	1	
1887-88 ...	466	149	119	2	10	3	11	4	...	3	
1886-87 ...	385	136	87	...	8	6	2	...	...	2	
	2,871	1,104	830	8	62	29	47	14	...	10	4,975
Calculated Total ...	10,450	4,019	3,021	29	226	107	171	51	...	36	18,110
Meters in use 38, March 1891 ...	327	124	458	16	70	96	154	46	...	28	
	10,123	3,895	2,563	13	156	11	17	5	...	8	
10 % added..	1,012	389	256	1	15						
No of meters required ...	11,135	4,284	2,819	14	171						

APPENDIX No. 3.

Quantity of Water used for Road Watering in one day.

A Ward, 1,353 Cart-loads (round) × 31 cft.

$6\frac{1}{4}$

186
7·75

193·75 say 200 gallons = 270,600 gallons.

80 Cart-loads (square) × 22

$6\frac{1}{4}$

132
5

say 140 gallons = 11,200

Total A Ward ... gallons 281,800

B Ward	483 × 200 =	96,600
	44 × 140 =	6,160
		102,760
C Ward	308 × 200 =	61,600
	43 × 140 =	6,020
		67,620
D Ward...	370 × 200 =	74,000
	62 × 140 =	8,680
	139 × 140 =	19,460
		102,140
E Ward...	475 × 200 =	95,000
	107 × 140 =	14,980
		109,980
F Ward...	118 × 200 =	23,600
	15 × 140 =	2,100
	28 × 140 =	3,920
		29,620
G Ward...	63 × 200 =	12,600
	29 × 140 =	4,060
	12 × 35 =	420
		17,080

A Ward	281,800
B „	102,760
C „	67,620
D „	102,140
E „	109,980
F „	29,620
G „	17,080
	711,000

No. 12905 OF 1893-94.

BOMBAY, 20*th December* 1893.

FROM MUNCHERJEE C. MURZBAN, ESQ., C.I.E.,

F.R.I.B.A., A.M.I.C.E.,

Executive Engineer, Bombay Municipality.

TO THE MUNICIPAL COMMISSIONER.

SIR,—I have the honor to return the Water Engineer's report No. W.-2712 of 7th July 1893 on the supply of water to the city of Bombay by meters. The report is interesting and contains many valuable suggestions. I shall, however, confine my remarks to the main question at issue, leaving out of consideration certain matters embodied in the report, which need not at present be referred to, and opinions which have no direct bearing on the subject and some of which are besides of a character with which, I regret, I cannot agree.

2. I concur with the Water Engineer that the time has arrived for adopting measures for the prevention of the waste of water in the city. These measures are necessary in the interest of the city on financial as well as sanitary grounds. From a financial point of view, they are necessary, *firstly*, because the waste of water has rendered it impracticable, without incurring a large expenditure on new water works, to give to the whole city, with our present available means, a *constant* supply of water *at high pressure*, the want of which has been the subject of loud and chronic complaint ; and, *secondly*, because it has unnecessarily increased the quantity required to be pumped up at the Love Grove Pumping Station, entailing, as a consequence, enhanced charges of pumping operations. From a sanitary point of view, these measures are necessary as the waste water impregnates the subsoil (especially in the undrained districts) which is mainly composed of earth, thereby giving rise to several diseases and increasing the unhealthiness of the city.

3. The principle of charging consumers according to the quantity of water consumed, which the Water Engineer recommends, is undoubtedly a sound one. But great care will have to be taken in the practical application of this principle, lest the poorer classes of the population should be driven to curtail the use of water, beyond the minimum quantity absolutely necessary, with the object of saving expense. At first sight, it might

appear that while the proposal recommended would increase the burden of taxation, it would at the same time restrict the free use of water. A careful consideration, however, will soon show that such would not really be the case.

4. But before the proposal above referred to is discussed in detail, it is necessary, in the first instance, to ascertain whether the present supply of water is in excess of the legitimate demands of the inhabitants and, if so, to devise means for profitably utilizing the excess, rather than allowing it to run to waste.

5. The main sources of the supply to the city are the Tansa, the Vehar, and the Tulsi Lakes, the Pawai Lake being also available, as a temporary measure, in times of emergency.

6. The supply from the Tansa Lake is at present limited by the capacity of the siphons on the line from Tansa to Ghatkopar. In his letter No. 20, dated 8th April 1892, Mr. Clerke says: "The results of the experiments I have had made show that the siphons are now capable of discharging 22,000,000 gallons, but I should not think that it will ever be reduced as low as 20,000,000 gallons per day." In his report, dated 22nd September 1885, on the Tansa supply project, the same gentleman based his calculations for the discharge of the pipe on Fanning's formula, which appears to be more reliable than others ordinarily used by the profession, as it is founded upon actual experiments made with pipes of different diameters, (*a*) when clean, (*b*) when slightly tuberculated, and (*c*) when foul. The results of these calculations show that the discharge of the Tansa pipe, when clear, is 21,500,000 gallons; when slightly tuberculated, 20,500,000 gallons; and when foul, 19,500,000 gallons.

7. The quantity of water which the siphons are capable of carrying has been estimated differently on different occasions, but it would be safe to assume the discharge at the lowest of the three figures, *viz.*, 19,500,000 gallons, that is, the quantity which the pipes are estimated to convey when foul.

8. The supply from the Vehar Lake is regulated more by the quantity available in it than by the capacity of the mains. It would be advisable to estimate the quantity the lake is capable of holding, with statistics commencing from 1886. The lake, as is well known, is being annually replenished since that year by the overflow waters of the enlarged gathering ground of the Tulsi Lake. The average total daily loss from Vehar since 1886 is 18·37 million gallons as may be seen from appendix A. From this, 6 millions should be deducted for evaporation, absorption and percolation, as per appendix B. The balance, namely, 12·37 millions of gallons, is further reducible by 0·87 million gallons, owing to leakage through the dam and to the daily percolation on the margin of the lake, which serves to feed the vegetation growing thereon as per Administration Report of the Water Department

for the year 1890-91, page 228, (0·7 million gallons are here assumed on account of loss in the margin of the Lake and leakage through the dam, but to this must be added 0·17 to make allowance for enhanced mean height of water in the lake.) The net average supply from Vehar, available for consumption, may therefore be safely assumed at 11·50 million gallons per day.

9. Following the method of calculation adopted in the preceding paragraph, we get 4·25 million gallons as the available daily supply from the Tulsi Lake, as shown below :—

	Million gallons.	Million gallons.
Total daily average loss from Tulsi Lake since November 1886 (as per appendix C)...		6·04
Daily loss due to percolation, absorption and evaporation (as per appendix D)	1·40	
Daily leakage through dam and absorption at the margin of the lake, say	·39	
Total deduction		1·79
Net available supply...		4·25

10. As to the Pawai Lake, it may be utilized whenever it is found that the collective supply from the three high level lakes is insufficient for the wants of the city. The total supply available from this source is estimated at 4·25 million gallons, *i.e.*, equal to that of Tulsi, the areas of the gathering ground of the two lakes being nearly the same. The rainfall at Pawai is about 18 per cent. less than that at Tulsi, but the deficiency is compensated by the advantage which the Pawai Lake possesses of delivering its supply by pumping through the Vehar main with greater rapidity, thereby avoiding the loss through percolation, evaporation, &c., estimated (on the basis of levels taken while water remained undrawn, from 23rd October 1892 to 18th June 1893) at about 1·70 million gallons per day.

11. The total quantity of water, therefore, that could be daily brought in to the city from the four existing lakes is equal to 39·50 million gallons as under :—

Tansa Lake	19·50	million gallons.
Vehar „	11·50	„ „
Tulsi „	4·25	„ „
Pawai „	4·25	„ „
Total ...	39·50	million gallons.

12. In order, however, to ascertain the quantity daily available for domestic and trade purposes, it is necessary to take into account the unavoidable loss of, say, 10 per cent. of the total supply through the public mains and the quantity used by the Municipality for public purposes, referred to in the 18th paragraph of the report of the Water Engineer under consideration. Thus,

the net available supply for domestic consumption and trade purposes comes to 33·50 million gallons per diem as follows :—

Total available supply from the 4 lakes ...		39·5 million gallons.
Deduct—10 per cent. for leakage through mains = ...		3·95 „ „
Balance ...		35·55 million gallons.
Deduct—		
	Gallons per day.	
Supply to public fountains	5,28,000	
Street watering	7,50,000	
Flushing public sewers, latrines and urinals	2,81,000	
Drain cleaning	19,000	
Extinction of fires	25,000	
Flushing water mains and fire practice	15,000	
Free supplies for Municipal works	5,000	
Add—25 per cent. for probable increased consumption in future...	4,05,750	
Total deduction, say		2·03 million gallons.
Net available daily supply for domestic consumption and trade purposes, say		33·50 „ „

13. The next point to be determined is the one having reference to the daily consumption of water for domestic and trade purposes, respectively. There are no data at present available for ascertaining this with any degree of exactitude, but the figures given by Mr. J. Baily Denton, C. E., in his book on Sanitary Engineering, may be safely taken as correct for all practical purposes. Mr. Denton says :

" *From the report on the Army and Navy Diet scales*, I find that the estimated quantity of liquid of all kinds drunk in the two services averages 187½ gallons per head per annum, or about two quarts per day. Though this quantity is drunk by adults of the male sex, it is some criterion of the quantity drunk by men, women and children, and it will not be wrong to assume that two-thirds, or 125 gallons per head, is as much as is actually consumed by a mixed population in a year. Dr. Parkes says that an adult requires daily from 70 to 100 ounces (3½ to 5 pints) for nutrition ; but about 20 to 30 ounces of this quantity are sometimes in the solid food. The water we drink, however, is, as we all know, not the only water that affects human health. All water mixed with solid food and used for cooking, and I would add, the water used for personal ablution and for the washing of the clothes we wear, and the utensils used in cooking, have a material though not so direct an influence on our sanitary condition. The quantity used in these different ways, when added to that which is drunk in one shape or another by the various descriptions of persons and communities of which all populations consist, does not together reach eight gallons per head, and in rural districts will not amount to half that quantity.

Eight gallons may be safely taken as representing the extreme quantity of water required, of which the quality must be of the purest. The additional supply required for every household purpose, if the rules of cleanliness are duly observed, including the water used in closets, and in washing floors, &c., as well as that used in stables, in the washing of carriages, and for other outside purposes, increases the 8 gallons to 15 gallons per head. All beyond this quantity taken for private use is mere waste, which would cease to exist if, in addition to a fixed charge for that quantity, every consumer paid for what he had besides.

It will have been understood that this quantity of 15 gallons per head is exclusive of the water used in trade, and of that devoted to public purposes, which, taking the mean quantity used in ordinary towns, I do not refer to towns in which special trades prevail, will be found to amount to 10 gallons per head. I have found on investigating the quantity of water used in different trades that as much as two millions of gallons per diem have been used in one business alone. It is difficult to strike an average, when such extremes as these are included, for such a quantity would, in truth, serve a town with a population of 80,000 consuming 25 gallons per head. Disregarding such extraordinary uses, I believe that we may take 25 gallons per head per diem as an ample supply for the generality of towns, while 15 gallons will suffice for rural villages ; the supply of more than these quantities of water only results in waste."

14. It will be observed from the above that the quantity of water for trade purposes is an uncertain element and should be determined for each city according to its specific requirements. As, however, water is supplied in this city through meters for trade purposes, there are data to indicate the quantity daily used for such purposes. The total consumption for all purposes registered by meters during 1892 was on an average 2,874,424 gallons or 3 gallons per head per diem (page 275, Administration Report, 1892). As a greater portion of this quantity is used in the Government buildings, by the Municipality and in private gardens in the city, it may be fairly inferred that the quantity used for trade purposes in the city is comparatively small and may therefore be left alone for the purposes of our computation.

15. Taking 15 gallons as the quantity required per head per day for all domestic purposes, including that used in closets and in stables, in washing floors and carriages, in baths, and for other miscellaneous purposes and 10 gallons more for trade purposes and gardens, the daily available supply of 33·5 million gallons is sufficient to meet the requirements of a population one and a half times the strength of the existing one. In other words we have a daily supply which is fully 63 per cent. over and above the requirements of the population of 821,764 according to the census of 1891. Considering that the increase of population of the city during the decade which ended in that year was only 6·5 per cent., it may be

fairly assumed that the city will not require, at least for a generation more, any addition to its present supply of water, if properly regulated and controlled. The effectual prevention of waste is one of the most potent means to control the supply.

16. This leads us to the consideration of the methods for preventing waste. There are two systems for effecting it—

(1) By fixing meters on all the service mains of the City, employing a staff to ascertain where leakage takes place, and adopting measures to stop it, and

(2) By fixing meters on each private service pipe, and charging the consumers according to the quantity consumed, thereby throwing on them the duty of checking waste.

17. The first system has been tried in the city by fixing Deacon's meters on the service-mains, and it appears from the enormous consumption of water described by Mr. Tomlinson in the 21st paragraph of his report that there is not comparatively speaking a heavy loss from leaking pipes.

18. The other system may prove effective, inasmuch as it makes consumers liable to a water charge in proportion to the consumption as registered by meters. It will be their first interest to protect themselves from being charged for water which they may not have used. The instinct of self-interest will be a most powerful means to check waste. Care of course must be taken in the application of this system that the poor are not driven to abnormally curtail their consumption below what is essentially necessary for their daily requirements and that the private gardens, which are at once the beauty and lungs of the city, do not suffer at the hands of the parsimonious who will be inclined to stint the supply. Neither would it be wise nor just to make profit on the supply to enable the Municipality to construct new works by a burdensome water-tax. For these reasons, I regret, I am unable to agree with the Water Engineer in the recommendation made in the 57th paragraph of his report, that the water rate should be such as to create a reserve to meet increasing demands in the future.

19. As to the rate to be charged for water consumed, it is necessary in the first instance to ascertain what it costs the Corporation to supply water to the city. Taking the annual expenditure on Water Works at Rs. 18,10,000, as stated by the Water Engineer in the 18th paragraph of his report, it appears that it costs 2½ annas for every 1,000 gallons including 5 per cent. for the average loss due to the quantity less registered by meters. But allowing for smaller consumption during the monsoon, we may fairly put down the cost at 3 annas per 1,000 gallons.

20. The consideration of the different modes of taxation may now be easily considered. The first one that suggests itself is the fixing of meters to all the connections and charging for the water actually consumed at its cost price, *viz.*, 3 annas per 1,000 gallons. But it is feared that the receipts therefrom will not cover the

actual expenditure annually incurred on the Water Works. That financial condition can be attained only when the whole of the available supply of 33·50 million gallons is utilized by the people, a contingency which is evidently remote at present. It is not difficult to imagine that when people are compelled to pay for the full quantity actually consumed by them, there would be a natural tendency on their part to be as sparing as possible in the use of this essential necessity. The desire to economize will inevitably grow, leading to habits of untidiness and unhealthiness. Under such a condition it is not unlikely that a large quantity of water in the Lakes would run to waste unless a considerable demand for purposes, other than household, spring up to counterbalance, to some degree, the water saved by the poorer sections of the population. It is clear, therefore, that such a mode of charging for water will neither prove satisfactory from a popular point of view, nor prudent from the point of view of Municipal finance.

21. The second mode is the fixing of a water tax on the rateable value of the properties in the city, that is to say, the system now in vogue for water consumed for domestic purposes. I consider this mode not only unfair but conducive to waste. It is unfair, because people who use water which is only necessary for their purposes without wasting it are made to pay the same rate as those who use an unnecessarily large quantity of water or allow it to run to waste. Both the careful and the careless are, under this system, treated alike. It is evident that there can be no advantage in perpetuating so defective a system which from a Municipal point of view can hardly be considered beneficial. Again it is conducive to waste because consumers having no pecuniary interest whatever in saving the water allow it to go to waste. For the several reasons urged above, this system also does not commend itself to my judgment.

22. The third mode is a combination of the preceding two, *viz.*, to fix a general water tax on all properties while a maximum quantity of water in proportion to the tax should be allowed, free, as it were, and to charge extra for the quantity consumed beyond the maximum. This principle, when carefully applied, will, in my opinion, meet the end in view. It may be adopted if the Corporation think that this is an opportune time for putting it into operation. But the rate leviable should be so fixed that a consumer may not be called upon to pay for his ordinary domestic wants an additional charge over and above that payable as a property tax. It will have to be borne in mind when fixing the rate that the revenue yielded at present from water suffers no diminution.

23. The system of charging for water recommended by the Water Engineer (see para. 54 of his report) is based on the principle enunciated in the preceding paragraph and is as follows:—

(1) The levy of a water tax at the rate of 2 per cent. upon all properties whatsoever with the exception of the 4 classes of properties referred to by him, and subject to the limitation of sections 170 and 141 (*b*) of the Municipal Act.

(2) The fixing of meters at Municipal expense to every connection for whatever purpose the water is used.

(3) The charging at the rate of 4 annas per 1,000 gallons regardless of the purpose for which it may be used. Bills to be prepared half-yearly in arrears and credit to be given for the amount paid in the common bill for water tax, as above, at 2 per cent.

24. The effect of the above proposal, if carried out in its entirety, would be that a man paying an annual house-rent of Rs. 12 per head, shall have to pay extra for all quantity consumed above 2·37 gallons per day as per appendix E. This quantity is so small that it would barely suffice for the most ordinary wants. The consumer will either have to bear the extra charge which he could ill afford to do, use water from a tank or well, the water of many of which is unfit for potable purposes, or restrict as much as possible the use of water in washing, bathing and other purposes. Such restriction is highly objectionable from the point of view of the public health, specially of the masses.

25. Besides the objection above referred to, the mode of taxation as proposed by the Water Engineer would in all probability materially affect the Water Revenue of the City. The revenue now derived from this source paid by meter measurements, is Rs. 6,56,701 (*vide* page 178 of the Administration Report for the year 1892-93). By the reduction of the rate to 4 annas per 1,000 gallons this revenue must fall to Rs. 2,62,291 (as per appendix F), representing a reduction in the existing water revenue of the Municipality of Rs. 3,94,410 per annum. Again the income of Rs. 5,79,245 (*vide* page 178 of the Administration Report for the year 1892-93) now derived by the levy of water-tax at 4 per cent. on the rateable value of properties amounting to Rs. 1,44,81,125, will be reduced to Rs. 2,89,623 by the proposed tax at 2 per cent., involving a futher reduction of Rs. 2,89,622. The total reduction in the revenue of the Municipality will therefore be Rs. 6,84,032. The introduction of the proposed method of taxation will therefore result in the immediate reduction in the water revenue of the Municipality of Rs. 6,84,032, and although it would be possible to recoup this loss either wholly or in part by the expected additional income by the levy of the extra charge, yet it must not be lost sight of that this expected additional income is uncertain, as it will wholly depend upon the extra quantity that may be used by the consumers.

26. A moment's reflection will shew that the expected additional income is very uncertain. In consideration of the water-tax of 2 per cent. consumers will be entitled to have without any extra charge 3,174,000 gallons daily (as per appendix G). In order that the present Water Revenue may not suffer, they must voluntarily use daily an additional quantity of 7,500,000 gallons (as per appendix H). This is not likely to be the case, as there will be an inducement to use water as sparingly as possible to save expense, considering that this additional consumption is to be derived from the mass of the people who are neither rich nor very punctilious about cleanliness where their pockets are concerned.

27. For the reasons stated, the rate of the water-tax and the rate per 1,000 gallons proposed by the Water Engineer are in my opinion inadmissible both from a financial point of view as well as from sanitary and other points. Even with our present income there is an annual loss of over 4 lakhs of rupees on the Water Works investment and current expenses (see page 169 of the Administration Report for the year 1892-93) and on this ground alone, if on no other, I would hesitate to recommend the Water Engineer's proposal, which is likely to swell inordinately the existing deficit without any sufficient guarantee of compensating advantages. The reduction proposed is, in fact, not real, as the city will have to make up the deficit from other sources of taxation and by persons other than those who use water.

28. I would propose that:—

1. A water tax should be levied at 4 *per cent.* on the rateable value as at present for water used for domestic purposes.
2. In consideration of the water-tax above referred to, the consumer shall be entitled to take by measurement, when the metres are fixed, a quantity not exceeding the equivalent of the amount of the tax at 2 *annas per* 1,000 *gallons.*
3. An extra charge of 3 annas per 1,000 gallons should be made on all properties in which a larger quantity than that allowed, as above, is used.
4. The present system of charging for water by measurement through meter in certain cases (including Government) or by compound sums should be continued.
5. All meters should be fixed and maintained at Municipal expense, but it should be done gradually. They should be first fixed to houses having $1\frac{1}{2}''$ and $1''$ connections, next to houses having $\frac{3}{4}''$ connections and lastly to those having $\frac{1}{2}''$ connections.

29. The advantages of this modified proposal may be thus summarized :—

1. There will be no risk of a larger deficit in the water revenue than at present.
2. The very low rate of 2 annas per 1,000 gallons will afford inducement to the public to utilize as much as may be needed which will be on an average 15 gallons per head per day (as per appendix L). It has been invariably the case in matters of taxation on an article of necessity and on every other article that the lower the tax the larger the consumption.
3. Consumers will in their own self-interest check waste.
4. Every individual paying a monthly rental of Re. 1 will be entitled to receive, without any extra charge, beyond the regular water-tax, a quantity of 9·5 gallons per day.
5. About 15,000,000 gallons will be available daily for sale (as per appendix K).

30. Should it be finally decided to charge for the water consumed on the combined principle explained above and fix and maintain meters at Municipal expense, it will be necessary to amend sections 169 (1*a*), 169 (3), 141 (*b*), 170 and 276 of the Municipal Act.

31. Should it be decided to fix meters to all connections, the first cost of carrying into effect these proposals would be to provide and fix meters of the inferential type which will involve an outlay of about Rupees (6,00,000) six lakhs of rupees as stated by the Water Engineer in para. 46 of his report.

32. The annual expenses of supervising and reading staff, materials for repairs, examination, &c., are estimated by the Water Engineer at Rs. 15,000. If to this be added the amount necessary for an annual sinking fund *plus* compound interest at 4 per cent. for liquidation in twenty years on the initial outlay of 6 lakhs of rupees, the total annual expenditure will amount to Rs. 59,077, assuming the life of a meter at 20 years.

33. I am, however, in favour of the gradual application of the meter system, commencing with the largest connections and ending with the smallest, because the waste more likely occurs in those premises which are supplied with large than in those with small connections. It would, therefore, be advisable to first take in hand 1½" and 1" connections at a cost of about Rs. 1½ lakhs and carefully watch the results of the experiment. Should these prove satisfactory, the rest of the connections may be proceeded with as suggested. In point of fact it is essential for the perfectly satisfactory working of the meter system that we should proceed stage by stage marking the results of the experiment at each stage.—I have, &c.,

MUNCHERJEE C. MURZBAN, F.R.I.B.A., A.M.I.C.E.,
Executive Engineer, Municipality.

APPENDIX A.

Average daily loss from the Vehar Lake during the dry season from 31*st October to* 31*st May* (vide *page* 17 *of the Report on Pawai Project*) :—

Year.	Million gallons.
1886	18·74
1887	18·00
1888	17·70
1889	17·70
1890	19·80
1891	18·30
	6)110·24
	18·37 Average daily loss in million gallons.

APPENDIX B.

Average daily loss from the Vehar Lake by evaporation, absorption, and percolation :—

	Level of water in the Lake.	
	On 31st May.	On 31st Oct.
1886	.....	262·50
1887	250·30	261·40
1888	249·40	257·10
1889	244·20	255·40
1890	241·80	262·35
1891	249·35	261·80
1892	250·40	.....
	6)1485·45	6)1,560·55
Average ...	247·57	260·09
Say	247·50 T.H.D.	260 T.H.D.

Contents of lake at 248·50 T.H.D. ... ... 6,580 million gallons.
Do. 246·50 „ ... ... 6,053 „

Contents of the lake between 248·50 and 246·50 T.H.D. ... ... } = 527 million gallons = 84,320,000 c. ft.

Hence the area of the lake at 247·50 T. H. D. is $\frac{84,320,000}{2}$ } = 42,160,000 sq. ft.

Contents of the lake at 260·50 T.H.D. ... ...10,369 million gallons.
Do. 259·50 „ ... ...10,032 „

Contents of the lake between 259·50 and 260·50. } = 337 million gallons or 53,920,000 c. ft.

Hence the area of the lake at 260·00 T.H.D. is $\frac{53,920,000}{1}$ } = 53,920,000 sq. ft.

Area of the lake at 247·50 ... ...= 42,160,000 sq. ft.
Do. 260·00 ... ...= 53,920,000 „

2)96,080,000 „

Mean area of the lake between 247·50 and 260·00 T. H. D. ... ... } 48,040,000 „

Hence daily loss through evaporation = 48,040,000 sq. ft. × ·02 ft. × $6\frac{1}{4}$
= 6 million gallons.

APPENDIX C.

Daily loss from the Tulsi Lake.

Year.	Million gallons.
1886	6·36
1887	6·18
1888	5·86
1889	5·82
1890	5·99
	5)30·21
Average	6·04 million gallons.

APPENDIX D.

Level of water in Tulsi Lake.

Year.	On 31st May.		On 31st Oct.	
1886	.....	T.H.D.	455·30	T.H.D.
1887	436·60	„	453·70	„
1888	434·70	„	452·65	„
1889	434·30	„	453·00	„
1890	435·15	„	454·40	„
1891	436·70	„	.....	„
	5)2,177·45		5)2,269·05	
	435·49	„	453·81	„

Contents of the lake at 455 T.H.D. = ... 2,173 million gallons.
Do. 453 „ = ... 2,002 „

Contents of the lake between 455 T.H.D. and 453 T.H.D. ... ... } 171 million gallons.
= 27,360,000 c. ft.

Hence the area of the lake at 453·81 or very nearly 454 T.H.D. is $\frac{27,360,000}{2}$ = 13,680,000 sq. ft.

Contents of the lake at 436 T.H.D. ... ...813·3 million gallons.
Do. 435 „ ... ...759·4 „

Contents of the lake between 436 and 435 T.H.D. is 53·9 „
= 8,624,000 c. ft.

Hence the area of the lake at 435·49 or nearly 435·50 T.H.D. is $\frac{8,624,000}{1}$ = 8,624,000 sq. ft.

Area of the lake at 435·50 T.H.D. = ... 8,624,000 sq. ft.
Do. 453·81 „ = ... 13,680,000 „
2) 22,304,000 „

Mean area of the lake between 435·50 and 453·81 T.H.D. ... ... } 11,152,000 „

Hence the daily loss through evaporation = 11,152,000 × ·02 × 6½ = 1,394,000 gallons
Say 1·4 million gallons.

APPENDIX E.

According to the Water Engineer's proposals, a man paying a monthly rental of Re. 1 will get only 2·36 gallons of water per day without any extra charge, thus :

Annual rental	Rs.	12
Deduct—10 per cent. as usual for loss of tenants, &c....	„	1·20
Gross rental for assessment ...	„	10·80
		·02
Water tax at 2 per cent.	„	0·216
Quantity of water allowable for a rupee	4,000	gallons.
Quantity of water allowable per year for the tax levied	864	„
Quantity of water allowable per day for the tax levied $\frac{864}{365}$	2·37	„

APPENDIX F.

	Gallons.
The annual consumption in the city through meters is (*vide* page 275 of the Administration Report of 1892-93)	1,049,165,082
The cost of 1,049,165,082 gallons at annas 4 per 1,000 gallons	Rs. 2,62,291

APPENDIX G.

	Rs.	
Rateable value of the properties	1,44,81,125	
Amount of water tax at 2 per cent.	2,89,623	
The quantity of water supplied for a rupee at 4 annas per 1,000 gallons	4,000	
Quantity of water annually supplied for the water-tax	1,158,492,000	gallons.
Average quantity of water daily supplied for the water-tax	3,174,000	„

APPENDIX H.

		Rs.
The present annual income		12,35,946
Income from the proposed water-tax ...	2,89,623	
Income from water by meter measurement..	2,62,291	
Total ...		5,51,914
Deficit Rs. ...		6,84,032

The number of gallons of water at 4 annas per 1,000 gallons represented by the deficit of Rs. 6,84,032 ... ... 2,736,128,000 gallons.

Average extra daily consumption to make good the deficit in the revenue ... ... 7,500,000 „ nearly.

APPENDIX K.

	Gallons.
Total available supply	33,500,000
Deduct—	
5 per cent. of 33,500,000 for the probable deficit that would not be registered by meters...	1,675,000
Quantity allowable per day in consideration of the 4 per cent. water-tax = $\left\{\frac{\text{Rs. } 5,79,245 \times \text{Gallons. } 8,000}{\text{Revenue per rupee}}\right\} \div 365$ days ...	12,696,000
Present supply through meters	2,874,000
Total deductions ...	17,245,000
Balance ...	16,255,000
	Say 15 million

gallons, allowing 1,255,000 for the water supplied for compounded sums, which was Rs. 17,102 for the year 1892-93.

APPENDIX L.

Quantity of water allowable per day in consideration of water-tax (*vide* Appendix K) ... 12,696,000 gallons.

Population of Bombay according to the census of 1891 821,764

$\therefore \frac{12,696,000}{821,764} = 15$ gallons, the quantity of water allowable per head.

Appendix I.

GREEN STREET,
ELPHINSTONE CIRCLE,
BOMBAY, *3rd December* 1894.

Award on the Rateable Value of Buildings and Lands in the City of Bombay vesting in Her Majesty and beneficially occupied, made in accordance with Section 144, Chapter VIII, of the Municipal Act of 1888.

1. The rateable value of each group of buildings and lands in connection therewith and other lands are shown in Statement, marked **A**.

2. The probable annual rents that would be realized for bungalows, residences, or offices forming part of certain Government buildings are shown in Statement, marked **B**.

3. The buildings and lands in connection therewith have been valued on the basis of what they would probably realize in the open market at the present time, after duly considering the valuations submitted by the Municipal Commissioner and the Executive Officers of Government.

4. In fixing the value of buildings of a rich and ornate character, which Government have been pleased to erect for beautifying the City of Bombay, a similar reduction has been made to that taken in my last award, dated June 10th, 1891, as buildings of a plainer character with equal accommodation could have been erected by Government had they so desired, which would have realized the same annual rents.

5. The market values of the sites of the buildings have been arrived at, after duly considering (1) the values made by the Collector of Land Revenue, (2), the values made by the Municipal Commissioner, and (3), the prices that have been realized in the open market for similar land during the last five years.

6. Wherever it has not been possible to obtain the actual rentable values and with a few other exceptions,

I have adopted the usual practice followed in India as well as in England for fixing the rateable values, which is as follows :—

> Ascertain the present market value of the particular site and building, and to each apply a reasonable percentage—the result, *minus* ten per cent. for all allowances for repairs or any other account whatever, will be the rateable value under Section 154 of the Municipal Act.

7. In my valuation I have fixed 4 per cent. for land and 6 per cent. for buildings, which are reasonable interests for such properties.

8 I may observe that the rentals, per square yard, of area of each of the buildings obtained by this mode, compares very favourably with the rentals, per square yard, of the areas of the other public offices in this City.

9. In the case of Officer's bungalows, such as those in the Marine Lines, I have, after duly considering the actual rents realized for similar properties in that and other localities, fixed the rateable values on the rents that would probably be realized in that locality, without reference to the actual values of the land and buildings, as by any other process, owing chiefly to the large amount of unnecessary valuable land attached to many of the bungalows, which is almost useless to the tenants, the valuation would be absurd and unreasonable, so much so, that it would not be possible to find tenants in the open market to pay such high rents.

10. The Hospitals and Lunatic Asylum not being exclusively occupied for charitable purposes, *i.e.*, for non-paying patients, they have been rated in so far as the buildings are maintained for paying patients only.

11. Although Butchers and Cross Islands come within the Municipal limits of Bombay, the buildings and lands thereon have been exempted from assessment until such time as they may receive Municipal benefits.

12. All lands that do not let or realize revenue except to the extent of fees realized for storing materials,

grazing, squatting, fishing, &c., have been treated as waste lands, as they are not beneficially occupied; but in the case of any lands that may have been made use of by Government for a beneficial purpose, they have been assessed for the period of occupation,—the occupants having enjoyed Municipal benefits.

13. All Colleges and other Educational Institutions have been exempted from assessment under the ruling of the High Court in the suit of the Bombay University *versus* the Municipal Commissioner, September 1891, but the Officer's residences attached thereto have been assessed in accordance with the joint opinion of the Honorable the Advocate General and the Counsel for the Municipality.

14. In valuing the buildings and lands, I have followed the same principles as I did in my previous award, dated 10th June 1891.

15. I have taken the annual average loss to Government for vacancies in the Officers' bungalows in the Marine Lines, Colaba, &c., at 8·6 or $8\frac{3}{5}$ths per cent., or the same percentage that was adopted when the last valuation was made, and have deducted it from the rateable value of bungalows and residences.

16. The general tax being at present $8\frac{1}{3}$ per cent., and Government being liable under Section 144, clause 3, to pay $\frac{8}{10}$ths of the amount payable by an ordinary owner in respect of such tax, the amount to be paid by Government annually to the Corporation will be as shown below:—

Total rateable value of property.... ...	=	Rs. 14,46,674
This amount or Rs. 14,46,674 at $8\frac{1}{3}$ per cent.	=	„ 1,22,967
Therefore $\frac{8}{10}$ths of Rs. 1,22,967	=	„ 98,374

Rupees ninety-eight thousand, three hundred and seventy-four only to be paid by Government.

FREDERICK WM. STEVENS,

F.R.I.B.A., A.M.I.C.E., &C.,

Arbitrator.

STATEMENT

SHEWING THE

RATEABLE VALUE

OF THE

Buildings and Lands in the City of Bombay,

Vesting in Her Majesty and beneficially occupied, in accordance with Section 144, Chapter VIII, of the Municipal Act of 1888.

A.

Statement shewing the Rateable Value of the Buildings and Lands in the City of Bombay vesting in Her Majesty and beneficially occupied in accordance with Section 144, Chapter VIII, of the Municipal Act of 1888.

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
			Buildings and Lands in connection therewith in charge of the Executive Engineer, Presidency.			
				Rs.		
6	A / 1323	Esplanade, No. 8449	General Post Office	39,760		
7	A / 894	Wellington Road, No. 9559	Post Office Stables	5,412		
9	A / 3497-98	Esplanade, No. 8450	New Telegraph Office	32,483		
10	A / 3466	„ 8463	Telegraph Signallers' Quarters ...	10,828		
53	A / 1322	„ 8448	Public Works Offices	29,036		

45	A 1160 & 1160 A	No. 8434	Elphinstone College...	.....	Exempted.
	Do.	Do.	Record Rooms in do.	26,382	
...	Do.	Do.	Principal's Quarters in Elphinstone College	2,760	
45B	Portion of land assessed				
45A	A under No. 885 (1) A.	Cotton Green, No. 9561	* New Elphinstone College Students' Quarters	.....	* As the housing of the students of this College is part of the scheme of the education to be given, the quarters are not rateable and they have therefore been exempted.
11	A 1320	Esplanade, No. 8447	High Court	1,10,942	
10	A 1317	„ 8438	Secretariat	90,604	
3	A 1903 to 1926	Fort, No. 9311	Mint Buildings	80,528	
12	C 835 to 846	Carnac Road, No. 16	Small Cause Court	9,000	
13	A 3440 to 3444	Esplanade, No. 8473 (Portion of).	New Police Courts	31,640	
50	A 3153 (1)	Esplanade Main Road, No. 8473	Elphinstone High School	.....	Exempted.
47 & 48	A 3316 (2) to 3324	Esplanade No. 8473	Sir J. J. School of Art	.....	Exempted.
51	C 847 to 850	Carnac Road, No. 17	Elphinstone Middle School or Chandanwadi Anglo-Vernacular School	.....	
54 & 54A	A 2811 (2) to 2834	Frere Road, No. 8483	† European General Hospital ...	30,219	Exempted. † This Hospital is partly used for charitable purposes, *i.e.*, for non-paying patients, and partly for paying patients. It has therefore been assessed, in so far as the building is maintained for the latter patients only.
			Old quarters for Resident Surgeon in the compound of the European General Hospital, at present occupied by Superintendent of Police	1,800	
55	A 3445 to 3449	Cruickshank Road, Esplanade No. 8473	‡ Pestonji Hormusji Cama Hospital	1,272	‡ This Hospital is partly used for charitable purposes and partly for paying patients as in the case of the European General Hospital, and has been assessed accordingly.
57	A 3485	Esplanade, No. 8463	General Mews and Stores with upper-storied quarters for custodian	14,661	
			Carried forward ...	5,17,267	

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	REMARKS.
				Rs.		
			Brought forward ...	5,17,267		
9	D 2521 to 2524, 2526, 2528 to 2538, 2973 to 2977	Walkeshwar, No. 7262	Government House, Malabar Point.	37,552		
14	D 980 to 982	No. 7495	Girgaum Police Court	5,994		
39	D 246 & 247 Near Mr. Babajee Gopal's house (extra land reserved for Pound).	No. 7957	Pound and Pound-keepeer's Quarters at Girgaum...	908		
52	D 1801 & 1802	Chunam Kiln Road, No. 7364	David Sassoon Industrial and Reformatory Institution	.....		Exempted.
			Superintendent's Quarters of Reformatory Institution	1,344		
7	D 2649 (1 & 2)	„ 7306	* Chowpatee Distillery	.....		* Chowkey demolished since last assessment. Land shewn under "Lands in charge of the Executive Engineer, Presidency."
7A	D 3645 (2)	„ 7306	Office for the Divisional Abkari Inspector	225		
8	D 3222 (2)	„ 7162	Combined Post and Telegraph Offices at Malabar Hill	1,251		
8	F 627, 967, 986 to 992, 1307 to 1331, 2534 to 2537, 2582, 2585, 2593 & 2729.	„ 2487	Government House, Parel	37,035		

22	E 3449 to 3457 & 3692 to 3714 F	Byculla, No. 3688	House of Correction, including Superintendent's, Deputy Superintendent's Quarters, &c.	12,339	
46	1056 (1, 9, 10, 11 & 20) B	Parel 2 No. 2489	Veterinary College, Parel ... ... Assistant Professors' Quarters, in Veterinary College, Parel ... † Students' Quarters, in Veterinary College, Parel	.....	..... Exempted. † As the housing of the students of this College is not a part of the scheme of the education, the quarters have been ra'ed. Charitable Institution.
23	3078 to 3091 (1 to 4)	„ 3647	Common Jail at Oomarkhadi, including Superintendent's, Deputy Superintendent's Quarters, &c. ... Sir J. J. Dharamsala	600 240 19,151	
64	E				
65	857 to 860 B	„ 6088	Morgue and Jury Rooms at Kamatteepura	840	
5A	5260 (2) B	„ 3186	Temporary Branch Custom House at Prince's Dock	496	
11	5538 & 5539	„ 3186	Telegraph Office at Mandvi ...	1,300	
12	4307 to 4315, 4316 (1 to 6), 4317 to 4329. G	„ 3188	Telegraph Store-yard and Sheds at Wari Bunder	12,322	
4	5149 G	„ 58	New Custom Office at Mahim ...	228	
6	3677 & 3678 F	„ 1280 Matunga, 1	Dadur Distillery	2,688	
2	3728 & 3729 E	No. 148 Parel Road	Sarkarkoon's Kutcherry	429	
44	4573 to 4576, 4577 to 4598, 5488 to 5501, 5528 to 5531.	Nos. 3671, 3676, 3677	Grant Medical College	.....	Exempted.
53	.....	Do.	Sir J. J. Hospital	.....	Charitable Institution.
			Carried forward	6,52,209	

M—2

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Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
				Rs.		
			Brought forward ...	6,52,209		
1	A / 1039 (2), 1040, 1045 (2-3) 1046 (1-2) 1047 (1-2) 1048, 1049, 1051 to 1053 and 1055 (3)	Fort, No. 9313	‡ Town Custom House	10,500		‡ The land upon which this building is erected has not been assessed, as it is vested in the Port Trust under clause 2, section 8, of Act I. of 1873.
59A	A / 1348, 1349, 1350	„ 9312	Town Hall	52,639		
60	1233	„ 9536	Old Medical Record Room now used for the storage of Stock forms, &c., at Apollo Street	3,923		
59	A / Portion of 1775 & 1776	1 / „ 9214	Accountant-General's Record Room in Fort	2,692		
61	A / 1597	„ 9230	Shipping Master's Office at Bazar Gate...	1,845		
62	A / 1054	Fort, No. 9536	New Central Press, Fort	17,443		
63	A / 1079	„ 9503	Old Government Bakery Building...	2,104		
4	A / 1137 & 1152	Rampart Road	Currency Buildings...	23,526		
5	A / 1613 (2-3-4)	Castle (Fort)	Coin Vaults	240		
1 to 34	A / 67 to 98	Upper Colaba, Portion of No. 9698	Observatory Buildings, including Superintendent's, Assistant Superintendent's Quarters, &c... ...	6,377		

56 A	3, 4 (1 & 2), 5, 17 (1 to 4), 23	Upper Colaba, A	* Medical Lunatic Asylum	2,159	* This asylum is partly occupied for charitable purpose, *i.e.*, for non-paying patients, and partly for paying patients. It has therefore been rated so far as the building is maintained for the latter patients only.
6 A	216 (1)	No. 9699 Colaba, A	Post Office	403	
1	A 530	No. 9675	Temporary wooden Chowkeys at the Cotton Green, Colaba ...	48	
2	A 529		Do. do. do. ...	48	
3	A 528	No. 9561	Do. do. do. ...	48	
4	A 527		Do. do. do. ...	48	
5	A 526		Do. do. do. ...	48	
7	A 3328		Do. do. do. ...	48	
	D 3686	No. 8473 Foras Road.	Temporary Chowkey opposite Crawford Markets	48	
	F 6435	Dadur Road.	Post Office Chowkey	30	
	E 6151	Nesbit Lane, No. 3687	Portion of Chawl occupied by the Peons of Salt Department ...	72	
	E 3131 to 3146 & 3146 to 3174 Rogers and Company.	Bellasis Road, No. 6921	Premises formerly used as Army Clothing Office, Clare Mount, Byculla	6,195	The land measuring 5234 square yards adjoining this building was lately purchased for the site of a new Police Station, and as it is unoccupied it is not rateable.
	E 3439	Shepherd Road.	Portion of Medical Stores with outbuildings	4,200	Leased to Messrs. Rogers & Co., the remaining portion of the building being in charge of the Executive Engineer, Military Works.
			Office for the Protection of Pilgrims at Byculla	526	
			Carried forward ...	7,87,371	

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	REMARKS.
			Brought forward ...	Rs. 7,87,371		
			Buildings and Land in connection therewith in charge of the Executive Engineer, Bombay Division, Military Works.			
1 to 4, 37A, 38, 42, 44, 47, 49, 49A, 60 to 62, 66, 77, 45, A, B, & C.	A	Upper Colaba.	European Infantry Lines	54,147		
	35, 38, 42, 53, 36, 34, 37, 40, 41, 45, 47, 46, 50 to 52, 54 to 56, 48, 49.	No. 9699				
1 to 6, 18, 41, 46 to 48, 53, 57 to 62, 68, 72, 73.	133, 132, 123, 114, 111 (1) 106, 115, 119, 120, 122, 124, 125, 130, 131, 163, 159, with Nos. 177 and 162.	No. 9698	Royal Artillery Lines	49,556		
		.....	Banks Hall, No. 18	256		
18	A / 121	9698	Staff Sergeants' Quarters, No. 63 to 67, with out-buildings	3,673		
63 to 67	145 to 149		Soldiers' Bible Reading Room, No. 74, with out-buildings	631		
74	160	,,	Staff Sergeants' Quarters, No. 75, with out-buildings	763		
75	161	,,				

77	165 (2) A	„	Shed for Dhobee Stand, No. 78, and ground connected therewith ...	236
1 to 8 & 13	99 to 105 A	„	Soldiers' Institute with subsidiary buildings	9,760
1 to 4	32 A	9699	Garrison Cells and out-buildings ...	1,314
1 to 12. 15, 16 & 17	107 to 110, 112, 113, 116, to 118. A	9698	Station Hospital do. ...	9,287
	39 A	9699	Musketry Range and Shott Range Butts	1,234
1 to 7, 8 to 17, 24	67, 62, to 68, 69 A	„	Depôt Barracks	6,823
18 to 20	74, 73, 73A	„	Staff Sergeants' quarters, Nos. 18, 19 and 20, with out-buildings ...	1,640
22	170	„	Old Magazine	200
16	326 to 342, 352, to 354, 801, 828 to 841 253 (2)	Colaba, Nos. 9662 & 9567 Colaba	Gun Carriage Premises, Superintendent's Office and Lascars' Lines.	21,768
			Latrines for Native Troops at the Sassoon Dock	62
192, 167, 162, 191, 188, 186, 184, 177, 165, 182, 181, 171, 176, 187, 193, 161, 194, 190, 189, 178, 168, 170	1604, 1648 (1 & 2) including Castle Park A	Mint Road, No. 9312	Grand Arsenal	85,915
			Carried forward ...	10,34,636

Government or Executive Engineers' Numbers.	Municipal Ward Numbers	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act	Remarks.
				Rs.		
			Brought forward ...	10,34,636		
	A 573 (2 to 4) A	Apollo Bunder, No. 9560	Apollo Bunder, Magazine buildings, Saluting Battery, &c.	1,203		
206, 207, 212, 208	1582 & 1573 E	Military Store Lane Nos. 9215 & 9326	Office of Executive Engineer, Bombay Defences, Barrack Master's Office and Garrison Stables ...	3,369		
413 to 425	6151 C	Nesbit Lane, No. 3687	Premises formerly used as Army Clothing Office, Clare Mount, Byculla	.....		Transferred to the Executive Engineer, Presidency.
	851 A	Carnac Road, Esplanade, No. 1790	Old Sailors' Home	4,399		
	61 (2), 151 (2), 152 (2) A	Upper Colaba	General Cantonment Works, cudjan shed for sentry, and latrines for native followers near the Depot Barracks and Parsee Agiary ...	169		
195 to 201	1596 (1 to 9) & 1807	Bazar Gate Street, Fort.	Commissariat Buildings	25,098		
203	1598	No. 9309				
	E	No. 9230	Non-Commissioned Officers' Quarters, Town Barracks	8,896		
591 to 625	3131 to 3146 & 3146 to 3174 Rogers & Co. A	Bellasis Road, No. 6921	Portion of Medical Stores with outbuildings, Byculla	4,255		The remaining portion of the building has been let to Messrs. Rogers & Co., at a rental of Rs. 4,200 per annum.
1 to 31 1 to 8 43, 14, & 9 to 12	3500 (2), 3529 (2), 3530 to 3533, 3671 to 3679	Esplanade Road, No. 8451	Buildings for Native Troops and auxiliary buildings and old Marine Battalion Hospital	30,237		

1 to 40 1 to 5	3352 (3), 3353 to 3420 3421 (1), 3720, 3722 (2)	Esplanade Road, Market No. 8475 and $\frac{4}{8469}$	Bori-Bunder, Native Infantry Lines and auxiliary buildings.	35,934
	3715 (2)	Esplanade, North side of School of Art	Ground occupied as store-yard with a Chowkey thereon adjoining the Goculdas Tejpal Hospital compound on the east side	1,072
	3603 (2), 3604 (1-2), 3605, 3606 (1 to 3), 3607	Marine Lines, No. 8428	Hospital for the Marine Battalion and 4th Rifles	9,942
			Buildings in connection with the Rowli Magazine.	
	$\frac{F}{3947 \text{ to } 3951}$	Rowli	Powder Magazine, Packing-room, Guard-room, Examining shed, Cook-room and Sergeants' Quarters with out-buildings	2,758
			Buildings in connection with the Sewri Magazine.	
	$\frac{F}{2843, 2844, 2845 (1), 2846, 2846 (2), 2847}$	Sewri.	Powder and Gun-cotton Magazines, Guard-room, Cook-room, Examining Shed, Lascars' quarters and Sergeants' quarters with out-buildings	4,690
			Buildings in connection with the Tank Bunder Magazine.	
	$\frac{E}{6363 \text{ \& } 6371}$	Tank Bunder.	Powder Magazine, Guard-room and and Cook-room	1,442
			Carried forward ...	11,68,150

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
			Brought forward ...	Rs. 11,68,150		
			Buildings and Land in connection therewith in charge of the Executive Engineer, Bombay Defences Division, Military Works.			
1 to 7	D / 3539	Mahaluxmi Battery, Warden Road, Foreshore near Cumballa Tank.	Buildings at Mahaluxmi Battery ...	6,182		
9 to 22	A / 76 to 83 (1) 83 (2 to 5)	Colaba Point Batteries, south and south-east foreshore near old light house.	Buildings at Colaba Point Battery.	1,969		
23 to 42	E / 5183 to 5214	Mazagon, east side of Gunpowder Road and north of Kassara Basin.	Executive Engineer's Offices, Stores Workshops and Subordinates' Residence	16,304		
43 to 52	E / 5243 to 5248	Mazagon, west side of Gunpowder Road, west of Executive Engineer's Office.	Subordinates and Lascars' Quarters and Store-room	2,016		

55 to 63	A 352, 353, & 355 (1)	West of Lower Colaba Road, near Gun Carriage Factory Gate.	Executive Engineer's Office, Bombay Defences, at Lower Colaba...	1,355	
64 to 67	D 2525 (1-2) & 2527	Malabar Point near Government House.	Buildings at Malabar Point Battery	600	
1 to 46	.....	Bombay Harbour ...	* Buildings on Butcher's Island ...	.....	*These Islands are in the opinion of the Advocate-General and the Counsel for the Municipality within the City of Bombay, but they have been exempted for the present as they do not receive any benefits from the Municipality.
	.....	Do. ...	* Bomb-proof Buildings on Cross Island	.....	
			Buildings and Land in connection therewith in charge of the Executive Engineer, Dockyard Division.		
1, 1/A, 2 to 35, 35 A, 35 B, 35 C, 36, 38&39 to 45.	A 904, 905, 906 (1) 906 (2), 906 (3), 907, 910, 911 (1), 911 (2), 911, (3), 912 to 914, 915 (1), 915 (2), 915 (3), 916 to 939, 940 (1), 940, (2), 940, (3), 940 (4), 950 (5), 941 to 950, 951 (1), 951 (2) 951 (3), 951 (4), 951 (5), 952 to 957, 958 (1), 958 (2), 959 to 999 & 1037.		*H. M.'s Dockyard Buildings and Land	2,17,413	* Portion of building No. 1 in the Executive Engineer's list and bearing Municipal Ward Nos. A 906 (1) & 999 is taken under Police Buildings. The buildings under Municipal Ward Nos. A 906 (3) & 916 are taken in the Police Buildings list.
46	A 571 and 752	.....	† Coal Depot, Arthur Bunder ...	2,330	† The land attached to this Depot and that on which the buildings are erected is vested in the Port Trust under Act I of 1873 and therefore has not been assessed.
			Carried forward ...	14,16,328	

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
			Brought Forward ...	Rs. 14,16,328		
			Buildings and Land in connection therewith in charge of the Collector.			
	A / 423 to 439	Colaba, A / 9567	* Stable	.....		*Stable demolished since last award and the vacant land is shown under "Land in charge of the Collector."
1	D / 2467	Chowpatti, No. 7298	Teakwood Chowkey with corrugated iron roof...	84		
2	E / 6023	.....	† Old General Stores and Office on ground formerly occupied by the G. I. P. Ry. Co., near Nesbit Lane, Byculla	1,560		†This building and the ground upon which it is erected, together with portion of ground occupied by a kitchen built by the Bombay Education Society, measuring 935 square yards, have been assessed. The remaining portion of land is unoccupied and is shown under "Land in charge of Collector." The Society has been allowed by Government to occupy the building and land free of rent and has agreed to pay the general tax (*see* Consulting Engineer for Railways letter No. 628 of 23rd January 1894 to the Collector of Bombay) which should be recovered from them by Government.

Buildings and Land in connection therewith, in charge of the Deputy Collector of Salt Revenue.

1 & A	F	1			
	3728 & 3729	148	*Sarkarkun's Kutcherry at Matunga	.....	
6	3304	20	Shivri Chowkey No. 2		9
7	2851 (2)	21	Hiragarli do. „ 3		18
8	3309	20	Shivri do. „ 4		18
9	3330	19	Dhopli do. „ 5		15
10	2919 C	18	Wadala do. „ 6		10
11	3919	18	Do. do. „ 7		18
12	3916 B	16	Motha Antop Chowkey No. 8 ...		18
13	3917	16	Do. do. „ 9 ...		18
14	3922	13	Dadkhudai do. „ 10 ...		18
15	3924	12	Madali Antop do. „ 11 ...		24
16	3927	11	Sulemansha do. „ 12 ...		18
17	3993	10	Saki do. „ 13 ...		10
18	3931	7	Luxman Govindji do. „ 14 ...		18
19	3960	9	Mothi Pegambri do. „ 15 ...		12
20	3932	6	Chandni do. „ 16 ...		12
			Carried forward ...		14,18,208

* Taken under "Buildings in charge of the Executive Engineer, Presidency."

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Government or Executive Engineers' Number.	Municipal Ward Number.	Locality and City Survey Number.	Name of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
				Rs.		
			Brought forward ...	14,18,208		
21	3956 B	4	Raoli Chowkey No. 17 ...	18		
22	3936	4	Do. do. „ 18 ...	24		
23	3938	5	Shaik Misri do. „ 19 ...	15		
24	3935 B	5	Do. do. „ 20 ...	12		
25	3955	4	Raoli do. „ 21 ...	12		
26	3954	4	Do. do. „ 22 ...	12		
27	3939 B	3	Khokri do. „ 23 ...	12		
28	3940	2	Bharpur do. „ 24 ...	12		
29	F/3942	1	Salamati do. „ 25 ...	15		
30	3943	1	Do. do. „ 26 ...	15		
31	3941 B	2	Bharpur do. „ 34 ...	15		
32	3944 B	1	Salamati do. „ 35 ...	12		
33	3928 B	8	Lahan Pegambri do. „ 36 ...	15		
34	3925 B	10	Sakhri do. „ 37 ...	15		
35	3926 B	11	Sulemansha do. „ 38 ...	15		

36	3923 B	13	Dadkhudai Chowkey No. 39... ...	15		
37	3921 B	14	Korbao do. „ 40... ...	15		
38	3919 E	18	Wadala do. „ 41... ...	15		
39	3929 (2)	20	Shivri do. „ 42... ...	15		
40	3933 E	3777	Rustum do. „ 43... ...	10		
41	3933 D	3777	Do. do. „ 44... ...	10		
42	3933 C	3777	Do. do. „ 45... ...	10		
43	3933 H	3776	Narayanrao do. „ 46... ...	10		
44	3933 G	3776	Do. do. „ 47... ...	10		
45	3933 F	3776	Do. do. „ 48... ...	10		
46	3991 (2)	1 A	Patrol Lines do. „ 49... ...	80		
		1043				
47	4000 (2)	11	Sulemansha Sazedar's Residence on Antop Hill No. 50	54		
		1059	Wadala Chowkey No. 51... ...	39		
48	3919 D	18	Wadia Mahal „ 53... ...	15		
49	3944 C	3772	Do. „ 54... ...	15		
50	3944 D	3772	Do. „ 55... ...	18		
51	3944 E	3772	Do. „ 57... ...	15	Temporary Chowkeys.	
52	3944 F	3772	Do. „ 58... ...	15		
53	3944 G	3772	Wadala „ 52... ...	15		
54	3919 F	18	Shivri „ 56... ...	18		
55	3308 B	20	Dadar Naka Office	18		
56	6435 (1) 6435 (2)	4	Carried forward ...	14,18,849		
		1263				

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
				Rs.		
			Brought forward ...	14,18,849		
			Chowkeys in charge of Customs Department.			
	A	9698	Wooden Chowkey, Pilot Bunder ...	20		
	127 (A)					
	387	3 / 9571	Do. do Arthur do. ...	30		
	1922	.....	Do. do. Ballard Road ...	68		
	2741	8480	Do. do. Carwar Street ...	26		
	3143	8480	Do. do. Bori do. ...	12		
	891 (i)	9560	Masonry Chowkey, Wellington Road.	60		
	2838	8480	Corrugated-iron Chowkey, Fort Street	30		
	278	9563	Wooden Chowkey, Victoria Bunder.	16		
	626	9572	Do. do. Jamsetji do. ...	17		
	3145	8480	Do. do. Mody Bay ...	20		
	1045 (2)	9313	Do. do. Town Bunder ...	25		

1038 (1A) B	.....	Wooden Chowkey, Custom House Road	15	In charge of Executive Engineer, Presidency.
1235 (1) D	3186	Mansonry Customs Shed, Musjid Bunder	747	
2500 E	4	Wooden Chowkey, Chowpatty ...	28	
5796	7298			
7829	8478	Masonry do. Mazagon Bunder	28	
6687 F	.....	Do. do. Ghodapdeo Road	.....	In a dilapidated condition and would not yield rent in its present state.
2828	2349	Do. do. New Tank Bunder	52	
6483	523	Do. do. Sewri	37	
8803 (1)	518	Do. do. Seo Road ...	116	In charge of Executive Engineer, Presidency, but occupied by the Port Trust Bunder Traffic Manager.
G		Do. do. Sion do. ...	20	There are two rooms in this building, one of which is used as a Customs Chowkey and the other as a Police Chowkey; half the value therefore has been charged to the Customs and the other half to the Police.
15	3345	Masonry Chowkey, Mahaluxmi Road	.....	In a dilapidated condition, and would not yield rent in its present state.
967	3223	Do. do. Koliwada ...	20	
6038	62	Do. do. Mori	19	
6222	Nil.	Do. do. Dharavi ...	22	
		Carried forward	14,20,277	

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
				Rs.		
			Brought forward ...	14,20,277		
			Police Stations, Quarters and Chowkeys.			
	A 26 (2)	*Nil.*	Colaba Road Chowkey	24		In charge of Police Commissioner.
	66 (2)	"	8 Bungalow Street (Colaba) Chowkey	24		Do. do. do.
	164 (2)	"	Pilot Street Chowkey	24		In charge of the Executive Engineer, Presidency.
	423 (2)	"	Colaba Road do. (at Government land ward No. 423-4) ...	12		In charge of Police Commissioner.
	520	"	1st Pasta Lane Chowkey	48		Do. do. do.
	906 (1), 999	"	Apollo Street Chowkey (at entrance of Dockyard)	348		In charge of the Executive Engineer, Dockyard.
	916	"	Constable's Quarters in Dockyard...	1,096		
	906 (3)	"	Wooden Chowkey for Gate-keeper's Office	15		
	1301 (2)	"	Junction of Wodehouse Road and Colaba Road Chowkey	12		In charge of Police Commissioner.
	1057 (1)	"	Custom House Road Chowkey ...	30		Do. do. do.
	2904 (7)	"	Jamnagar Street do. ...	34		Do. do. do.

3132	"	Bori Street Chowkey (Water Police)	84	In charge of Police Commissioner.
3219 (1)	"	Hornby Road ditto. (opposite Municipal Workshop)	21	Do. do. do.
3506 (2)	"	Mayo Road do.	12	Do. do. do.
3586 (2)	"	Marine Lines do.	12	Do. do. do.
3596	"	Do. do. do.	18	In charge of the Executive Engineer, Presidency.
3718 (1)	"	Carnac Road do.	57	In charge of Police Commissioner.
3718 (2)	"	Do. do.	33	Do. do. do.
3720 (2)	"	Do. do.	33	Do. do. do.
3668 (A)	"	Queen's Road do.	24	Do. do. do.
1922 (3)	"	Ballard Road do.	12	In charge of the Mint authorities.
1922 (4)	"	Do. do. do.	12	
B 1960	"	Bhandari Street Chowkey	50	In charge of Police Commissioner.
3724	"	Jail Road do.	78	Do. do. do.
4117	"	Nowroji Hill Road do. (opposite Elphinstone Bridge)	24	Do. do. do.
65	"	Abdul Rahman Street Chowkey ...	113	In charge of the Executive Engineer, Presidency.
4353 (2)	"	Frere Road Chowkey	144	In charge of Police Commissioner.
4377 (2)	"	Do. do.	48	Do. do. do.
4471	"	Do. do.	48	Do. do. do.
4370 (2)	"	Do. do.	48	Do. do. do.
C 2322 (6)	"	Queen's Road do.	12	Do. do. do.
916	"	Picquet do. do.	633	In charge of the Executive Engineer, Presidency.
		Carried forward ...	14,23,460	

Government or Executive Engineers' Numbers.	Municipal Work Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
				Rs.		
			Brought forward ...	14,23,460		
	6806	*Nil.*	Erskine Road Chowkey	360		In charge of the Executive Engineer, Presidency.
	D / 2872 (4)	,,	Gawalia Tank Road Chowkey ...	20		Do.
	3316	,,	Nepean Sea Road do. ...	18		In charge of Police Commissioner.
	3327 (3)	,,	Warden Road do. ...	12		Do.
	3402 (3)	,,	Gawalia Tank Road do. ...	12		Do.
	3465 (5)	,,	Pedder Road do. ...	12		Do.
	173	,,	Girgaum do. ...	60		Do.
	281	,,	Do. do. ...	57		In charge of the Executive Engineer, Presidency.
	E / 8	,,	Grant Road do. ...	109		Do.
	2935	,,	Foras do. ...	120		In charge of Police Commissioner.
	3112 (2)	,,	Bellasis Road do. ...	12		Do.
	3406	,,	Do. do. ...	16		Do.
	22	,,	Grant Road do. ...	18		Do.
	537 (2)	,,	Upper Duncan Road do. ...	88		Do.
	7483	,,	Parel Road do. ...	72		Do.

7042 (2)	"	Haines Road Chowkey (Junction of Haines Road and DeLisle Road...	18	Do.
7397 (2)	"	Clerk Road Chowkey (Junction of DeLisle and Clerk Roads) ...	16	Do.
6806	"	Dolkar Street Chowkey	50	Do.
4572 (3)	"	Clerk Road do.	693	In charge of the Executive Engineer, Presidency.
8181	"	Ghorupdeo Road Chowkey (Kala Chowkey)	31	In charge of Police Commissioner.
7732 (2)	"	Tank Bunder do.	12	Do.
4272	"	Haines Road Chowkey (Junction of Sakli Street and Clare Road) ...	36	Do.
5606 (2)	"	Wadi Bunder Road Chowkey ...	12	Do.
F — (2) 388	"	Dadur Road do.	15	Do.
2461	"	Sivdi do.	20	Do.
4559	"	Wadala Chowkey (Junction of Matunga and Antop Hill Roads) ...	12	Do.
6435 (2)	"	Dadur Road Chowkey	22	Do.
7799	"	Matunga Agarwada Chowkey ...	20	Do.
8803 (2)	"	Sion Road Chowkey...	20	Do.
G — (3) 6	"	Hornby Vellard Chowkey	15	Do.
18 (2)	"	Worli Road Chowkey (Shambu Mahadeo Pakhadi)	15	Do.
1025 (2)	"	Ferguson Road do. (Junction of DeLisle Road)	15	Do.
1383 (2)	"	Worli Road do. Matharpakadi.	15	Do.
2223 (2)	"	DeLisle Road do. (Junction of Arthur Road)	15	Do.
2340 (2)	"	Do. do. do. (Junction of Carrol Road)	31	Do.
		Carried forward ...	14,25,529	

Government or Executive Engineers' Numbers.	Municipal Work Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
				Rs.		
			Brought forward ...	14,25,529		
	G / 1	*Nil.*	Hornby Vellard Chowkey	121		In charge of the Executive Engineer, Presidency.
	2538	,,	Worli Road Chowkey	32		In charge of Police Commissioner.
	4221	,,	Hasali Tank Road Chowkey (opposite Dyeing Mill)...	15		Do.
	4307 (2)	,,	Portuguese Church Road Chowkey (Junction of Dadur and Hasali Tank Road)	30		Do.
	5215	,,	Mahim Bazar Road Chowkey ...	125		Do.
	5695 (2)	,,	Lady Jamsetji Road Chowkey (Junction of Mahim Bazar Road).	15		Do.
	6149 (2)	,,	Dharavi Road	29		Do.
			Total rateable Value of Buildings and Land in connection therewith...	14,25,896	12,83,307	

Land in charge of the Executive Engineer, Presidency.

1	A 525,531 to 534 (1 to 6)	1 9705	Open ground between the railway sidings of the B. B. & C. I. Railway at Colaba and the Chunda Ramji Jute Mills.	.....	
2	Do.	9705	Open piece of ground between the Colaba Land and Mill Company's property and the sidings of the B. B. & C. I. Railway, known as the Cotton Green	.....	Vacant.
3	1304 to 1307, 1309 & 1311	9561	Encampment ground for H. E. the Commander-in-Chief on the east side of the Wodehouse Road ...	.....	Used for depositing bales of cotton.
4	Do.	9562	Encampment ground between the Queen's Parade Ground Road and the Wellington Lines (exclusive of the Cooperage)	.....	Used as H. E. the Commander-in-Chief's camping ground.
5	1301 A.	9561	Open piece of ground known as Wellington Lines	.....	Used for grazing purposes.
6	885 (1)	9561	Open piece of ground bounded by the Bombay Tramway Company's Stables on the south, the Colaba Causeway and the Young Men's Christian Association on the east and the Wodehouse Road on the north and the west	.....	Used for pitching stable tents and for grazing purposes.
7	884 (2) A C D	9560	Open piece of ground known as the old Saluting Battery ground ...	.....	Used for pitching stable tent for Officers residing in the Wellington Lines and for grazing purposes.
8	1314 & 1315; 2323 & 1515	9562	Open piece of ground bounded by the Church Gate Street on the north, Queen's Parade Road on the east, Wodehouse Bridge on the south, and the B. B. & C. I. Railway on the west	.....	Vacant.
9	A. 1313 & 1321	8431	Open piece of ground known as the Rotten Row in front of the Secretariat University and High Court Buildings	.....	Do.
			Carried forward ...	.....	Used for recreation and grazing purposes.

Government or Executive Engineers' Numbers.	Municipal Ward Number.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowance for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
				Rs.		
			Brought forward ...	.....		
10	A C 3668 (2) 2323 (1)	8427	Land known as the Back Bay Reclamation extending from the Chowpatty Railway crossing to the Wodehouse Over-bridge at Colaba, and bounded on the north by the Queen's Road, on the east by the B. B. & C. I. Railway, on the south by the Wodehouse Bridge, and on the west by the sea ...	.....		Used for recreation purposes.
11	A. 1324, 3500 (1), 3501 to 3504, 3506 to 3508, 3510, 3513, 3520, 3522, 3523, 3525, 3529 (1), 3669 & 3670.	8454	The Marine Battalion ground, bounded by the Hospital Lane on the north, the Esplanade Road on the east, the Church Gate Street on the south, and the Marine Lines Road and bungalows on the west.	.....		Used as a parade ground and for grazing and recreation purposes.
12	A 3233 to 3237, 3250 to 3277, 3283 to 3290, 3428, 3429, 3461 (1) 3465, 3472 to 3479, 3486, 3487, 3490, 3492, 3493, 3238 to 3249.	8463	Open plots of ground on the land bounded by the Esplanade, Wandby and Hornby Roads	.....		Used for recreation and grazing purposes.
13	A 1595	9309	Open piece of ground bounded on the north by the new Pension Pay Office, on the east and on the south by the Mint Road, and on the west by the Bazar Gate Street.	.....		Vacant.
14	A 3454 to 3458, 3495, 3496, 3483, 3484.	8472	The Esplanade Parade Ground bounded by the Cruickshank, Esplanade and Wandby Roads (exclusive of the Bombay Gymkhana ground)...	.....		Used as a parade ground and for recreation and grazing purposes.

15	A 3299 to 3306, 3325 to 3327, 3329, 3425 to 3439, 3715 and 3717.	8473	Open plots of ground on the land bounded by the Hornby, Carnac and Cruickshank Roads	.....	Used for storing building materials and recreation purposes.
16	A 3218 (2)	1 8478	Open piece of ground on the east side of the Hornby Road, between the Salvation Army Hall and the Jaffer Suleman Dispensary ...	.....	Vacant.
17	A 3220 to 3225	8474	Open triangular piece of ground bounded by the Pultan Road on the east, Arthur Crawford Markets on the north, and the six Warrant Officers' Quarters on the west ...	.....	Do.
18	Do.	8477	Open piece of ground on the east of the Hornby Road, near Mahomedan Durgah situated between the new Warrant Officers' Quarters and the Municipal Workshops ...	.....	Do.
19	A 2813 (2)	5 8483	Open piece of ground at Bori Bunder on the west of the House Surgeon's Quarters of the European General Hospital	.....	Do.
20	A 1176	8433	Open piece of ground called the Crescent in front of the Sassoon Mechanics' Institute and the new Elphinstone College	.....	Do.
	C 2323 (1)	Portion of 8427	Portion of Plot No. 10 occupied for five months during each year for Remount Stables	31,982	Average annual rent of the 20 plots of land realized during the last five years.
32	A 3527 (1)	Marine Lines, Esplanade, portion of Survey No. 8453.	Site of Bungalow No. 32, bounded on the west by Marine Lines Road, on the north by the Bungalow No. 31, on the east by the Parade Ground and on the south by Bungalow No. 33	8,665	
34	A 3521 (1)	Do.	Site of Bungalow No. 34, bounded on the west by Marine Lines Road, on the north by open ground, on the east by the Parade Ground, and on the south by open ground.	300	Average annual ground rent realized during the last five years.
			Carried forward ...	300 41,247	Do. do. do.

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			Brought forward ...	Rs. 41,247		
41	A — 3512 (2)	Marine Lines, Esplanade, portion of Survey No. 8453.	Site of Bungalow No. 41, bounded on the west by Marine Lines Road, on the north by open ground, on the east by the Parade Ground and on the south by Bungalow No. 42	300		Average annual ground rent realized during the last five years.
Nil	G — 5308 (2)	Mahim 57	Site of Bungalow in the Mahim Fort	15		Do. do. do.
Nil	3322 (1)	Esplanade 8473	Photographic Studio in the compound of Sir Jamsetjee Jejeebhoy School of Art	12		Annual ground rent realized during the last five years.
...	F — 379, 371, 377, 388, 390 to 406, 408 to 413, 415 to 419, 421, 424, 426, 428 to 437, 440, 442, 444, to 448, 450 to 452, 454, 455, 458, 460, 461, 463 to 478 480 and 484.	Parel	Open ground for New Jail at Parel..	.....		Vacant.
...	D — 2649 (1, 2)	Chunam Kiln Road	Old site of Chowpatty Distillery ...	.....		Do.
...	F — 6441	Dadur	Land acquired for the Police Lines at Dadur	.....		Do.

			Land in charge of the Executive Engineer, Bombay Division, Military Works.		
			Open ground at Upper Colaba.		
A		Upper Colaba, No. 9699	Open ground to the south of Infantry Barracks	.....	Used as parade ground.
B		Do.	Open ground between Nos. 3536, and Officers' quarters	36 0 0	Used for grazing purposes, for which the average annual fees realized during the last five years are Rs. 36:
C	A	Do.	Open ground on the south of No. 36, Officers' quarters		
D	23A	Do.	Open gound in rear of No. 42, Officers' quarters		
E		Do.	Open ground between Nos. 41 & 42, Officers' quarters	.....	Occupied by Vehar Water Tank.
F		Do.	Open ground on the south of Napier's Road	.....	Used as segregated camp.
G		Do.	Open ground near Lunatic Asylum.	36 0 0	Used as Dhobi Ghaut; annual rent recovered Rs. 36.
H	A / 6B	Do.	Open ground to the west of R.A. Officers' Mess	.....	Vacant.
I	Portion of Ward A / No. 154	No. 9698	Open ground to the north of Parsee Agiary	293 0 0	Used for storing Government building material.
J	152 (3)	Do	Open ground to the south of Parsee Agiary	4 0 0	Ground rent recovered by Government annually for 4 buildings.
K	A / 127, 128, 129, 138	Do	Open ground near Pilot Bunder ...	7 0 0	Do. do. for 7 buildings.
			Land in charge of the Executive Engineer, Bombay Defences Division, Military Works.		
8	D / 3539 (2)	North end of Warden Road.	Land adjoining Mahaluxmi Battery	12 0 0	
			Carried forward ...	41,962 0 0	

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
				Rs. a. p.		
			Brought forward ...	41,962 0 0		
			Land in charge of the Collector.			
			Bombay District.			
		Musjid Over-bridge				
1	B / Portion of 1170 (2)	3 / 2641	A plot of vacant land	92 0 0		Average annual rent realized during the last five years.
2	B / 4108 (2)	Chinch Bunder, 4th Row, 2 / 3184	A plot of vacant or waste land ...	.....		No applicant.
3	B / 4416 & 4420	Wari Bunder, A / 3188	Do. land used for grazing purposes and depositing materials... ...	777 9 10		Average annual fees realized.
4	E / 6767	Wari Bunder, 7 / 3188	Do. waste land	180 0 0		450 square yds. let on tenancy-at-will ; remainder vacant.
5	E / 5617 & 5619	Belvedere Hill Road, 4 / 3601	Do. do.	144 0 0		Let on tenancy-at-will.

6	E / 4828 & 4829	Mount Road, 3 / 3607	A plot of waste land	.. ...	No applicant.
7	E / 6094 & 6100	Nesbit Lane, 3619	Do. do.	240 0 0	Let on tenancy-at-will.
8	C / Portion of 7849	1st Pattan Street, 5133	Do. do.	.....	No applicant.
9	C / 7857 & 7859	1st Pattan Street, 5136	Do. do.	.....	Do.
10	E / 2122 & 2124	Camatipoora Bazaar Street, 6430	Do. do.	.....	Do.
11	E / 3075	Falkland Road, 2 / 7000	A plot of vacant or waste land ...	.....	Do.
12	E / 2581 & 2582	Falkland Road, 7008	Do. do.	10 9 10	Average annual rent based upon the amount received during the last five years.
13	2811 (2)	Gilder Street, 2 / 7011	Do. do.	52 12 9	Average annual rent realized for the right of cutting grass.
14	D / 2659 (1)	Chowpatty, 1 / 7298	Part of Back Bay Estate	140 0 0	Do. do. do.
15	2661 & 3361	Chowpatty, 2 / 7298	Do. do. used for storing material...	1,185 4 0	Rent realized for land let on tenancy-at-will.
16	D / 3645	Grant Road, 7347	A piece of vacant land on the west side of the B. B. & C. I. Railway Line	.....	No applicant.
			Carried forward ...	44,784 4 5	

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Number.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
				Rs. a. p.		
			Brought forward ...	44,784 4 5		
	D	Queen's Road, D	Part of Back Bay Estate	.....		Privilege of cutting grass included in No. 14.
17	2447	7298				Do. do. do.
18	D 2442	8005	Do. do.	.....		
19	D 2544	8006	Do. do.	180 0 0		Let on tenancy-at-will.
20	D 1482 & 1490	8064	Do. do.	429 7 0		Rent realized on casual occupancies.
21	C Portion of 2788	2 8241	Do. do.	12 0 0		Let on tenancy-at-will.
22	C Portion of 2296	2 8417	Do. do.	30 0 0		Do. do.
23	C 2290 to 2295	4 8418	Do. do.	54 0 0		Do. do.
24	C Portion of 2283	8420	Do. do	6 0 0		Do. do.

25	C / Portion of 2274	2 / 8424	Do. Do.	24 0 0	Do. do.
26	C / Portion of 2275	3 / 8424	Do. Do.	36 0 0	Do. do.
27	D / 3223	2 / 7162	A piece of vacant land, Malabar Hill	18 0 0	Do. do.
28	D / 3179	2 / 7298	Do. do. do.		
29	A / Taken as a part of passage to the Durga, 3332 (2)	Esplanade, 8477 2 / 8479	A piece of vacant land on the south side of the Municipal Workshops and fronting the Esplanade Road, opposite the Warrant Officer's Quarters	.....	No applicant.
30	69 (2)	Colaba, 2 / 9699	A piece of vacant land on the north side of the limits of the Colaba Cantonment	.....	Do.
31	A / 423 to 439	A / 9567	A piece of vacant land via Colaba Station, B. B. & C. I. Railway ...	765 13 7	Let on tenancy-at-will.
32	D / 2442	Queen's Road, Portion of No. 8005	A piece of vacant land	24 0 0	Do. do.
33	D / 2442	Queen's Road, Portion of No. 8005	Do. do.	24 0 0	Do. do.
34	A / 2743	Mody Bay Estate 22 / 8480	Do. do.	314 5 11	Do. do.
35	D / 2442	Portion of No. 8005	Do. do.	3 7 7	Do. do.
			Carried forward ...	46,705 6 6	

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
			Brought forward ...	Rs. a. p. 46,705 6 6		
36	A / 216 (2)	Colaba, A1 / 9675	A piece of vacant land	.....		No applicant.
37	A / 235 (8)	5 / 9705	A piece of marshy land	.....		Do.
A / 37	B / 1171 (2)	Musjid Over-bridge 1 / 2652	A piece of vacant land	.....		Do.
B / 37	D / 234	Near Cattle Pound, Girgaum, 7964	Do. do, ...	.....		Do.
C / 37	E / 2576 to 2578	Falkland Road, 7007	Do. do.	8 15 6		Average annual rent based upon the amount received during the last five years up to 31st March 1894.
			Mahim District.			
38	G / 5311	Mahim Fort, A / 56	A piece of vacant land	.....		No applicant.
39	5308 (3)	Mahim Fort. 1 / 56	Do. do.	16 14 0		Let on tenancy-at-will.
40	G / 6588	Mahim Mori Road, 203	A piece of swamp land	.....		No applicant.

41	G / 6374	Mahim Mori Road, 1 / 266	Do. do.	13 9 7	Privilege of cutting grass.
42	G / 5996	Mahim Mori Road, A / 64	Do. do.	5 0 0	Do. do.
43	G / 7027	Mahim Mori Road, 20 / 297	A piece of swamp land	.....	No applicant.
44	G / 6950	20 / 300	Do. do.	.....	Do.
45	G / 6919	Dharavi Road, 5 / 303	A piece of waste land	.....	Do.
46	G / 6884	17 / 308	Do. do.	.....	Do.
47	G / 6885	18 / 308	Do. do.	.....	Do.
48	G / 6809	2 / 318	Do. do.	.....	Do.
49	G / Portion of 6378	Mahim, 4 A / 265	A piece of waste land on the west side of the old Branch of the G. I. P. Railway to Mahim ...	.....	Do.
50	G / Portion of 6379	B / 265	Do. do. ...	.....	Do.
51	G / 6678	4 / 367	Do. do. ...	.....	Do.
52	G / 6637	377	Do. do. ...	.....	Do.
			Carried forward ...	46,749 13 7	

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Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
		Mahim,		Rs.		
	G	2	Brought forward ...	46,749 13 7		
53	—	—	A piece of waste land at Mahim ...	.....		No applicant.
	7874	379				
	G	8				
54	—	—	Do. do. ...	.....		Do.
	7798	391				
	G	1				
55	—	—	Do. do. ...	.....		Do.
	7774	394				
	G	1				
56	—	—	Do do. ...	.....		Do.
	Portion of 7771	395				
	G	15				
57	—	—	Do. do. ...	.....		Do.
	7768	397				
		Dharavi Road,				
	G	10				
58	—	—	Do. do. at Dharavi Road.	.....		Do.
	7744	398				
	G	11				
59	—	—	Do. do. ...	.....		Do.
	7743	398				
	G	16				
60	—	—	Do. do. ...	.....		Do.
	7727	399				
	G	1				
61	—	—	A piece of swamp land on the south			
	7600	428	of Dharavi Road	26 4 0		Privilege of fishing.
	G	1				
62	—	—	A piece of vacant or waste land ...	.....		No applicant.
	7598	429				

63	G 7597	1 430	Do.	do.	.....		Do.
64	G 7587	1 431	Do.	do.	.....		Do.
65	G 7534	441	Do.	do.	.....		Do.
66	G 7532	442	Do.	do.	.....		Do.
67	G Portion of 7531	2 443	Do.	do.	.....		Do.
68	G 7522 (2)	3 446	Do.	do.	.....		Do.
69	G 7518	1 447	Do.	do.	.....		Do.
70	G 7517	1 448	Do.	do.	.....		Do.
71	G 7450	3 445	Do.	do.	.....		Do.
72	G 7345	1 470	Do.	do.	.....		Do.
73	G 7339	3 472	Do.	do.	.....		Do.
74	G 7426	1 459	Do.	do.	.....		Do.
75	G 7326	4 473	Do.	do.	.....		Do.
76	G 7327	5 473	Do.	do.	.....		Do.
77	G 7194	13 486	Do.	do.	.....		Do.
				Carried forward ...	46,776 1 7		

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
				Rs. a. p.		
		Dharavi Road,	Brought forward ...	46,776 1 7		
78	G / 7191	11 / 487	A piece of vacant or waste land ...	.....		No applicant.
79	G / 7030	2 / 504	Do. do.	.....		Do.
80	G / 6252	2 / 509	Do. do.	.....		Do.
81	G / 6255 (5)	1 / 510	Do. do.	.....		Do.
82	6256	1 / 511	A piece of swamp land	.....		Do.
83	G / 6257	1 / 512	Do. do.	.....		Do.
84	F / 8807 (1)	1 / 517	Do. do.	.....		Do.
		Sion Road,				
85	F / 6418	1 / 528	A piece of waste land	35 12 9		Privilege of cutting grass.
86	F / 6417	2 / 528	Do. do.	.....		Included in rent for No. 85.
87	F / 6413	4 / 529	Do. do.	.....		No applicant.
88	F / 6394	1 / 539	Do. do.	.....		Do.

89	F 6094	4 542	Do.	do.	...	.....		Do.
90	F 8615	8 566	Do.	do.	...	.....		Do.
91	F 6035	1 588	Do.	do.	...	.....		Included in rent for No. 85.
92	F 6173	14 599	Do.	do.	...	.....		No applicant.
93	F 6158	2 600	Do.	do.	...	.....		Do.
94	F 6133	8 603	Do.	do.	...	.....		Do.
95	F 6114	7 605	Do.	do.	...	.....		Do.
96	F 6326	1 619	Do.	do.	...	.....		Do.
97	F 6324	1 621	Do.	do.	...	.....		Do.
98	F 6315	23 625	Do.	do.	...	.....		Do.
99	F 6207	4 636	Do.	do.	...	.....		Do.
100	F Portion of 3953	1 639	Do.	do.	of Rowli Hill.	.....		Included in rent for No. 85.
101	F 5744	18 659	Do.	do.	do.	...	.....	No applicant.
102	F 5501	8 697	Do.	do.	do.	...	.....	Do.
			Carried forward			...	46,811 14 4	

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
				Rs. a. p.		
		Sion Road,	Brought forward ...	46,811 14 4		
	F	4	A piece of waste land Rowli Hill ...	.....		No applicant.
103	5307	702				
		9	Do. do. do. ...	.....		Do.
104		709				
		14	Do. do. do. ...	.....		Do.
105	F	709				
	Portion of 5377	15	Do. do. do. ...	.....		Do.
106		709				
		16	Do. do. do. ...	.....		Do.
107		709				
	F	2	Do. do. do. ...	.....		Do.
108	5429	715				
	F	6	Do. do. do. ...	.....		Do.
109	5470	720				
	F	5	Do. do. do. ...	.....		Do.
110	8150	729				
	F	13	Do. do. do. ...	.....		Do.
111	8178	732				
	F	6	Do. do. do. ...	.....		Do.
112	8489 (2)	753				
	F	8	Do. do. do. ...	.....		Do
113	8482	756				

	F	17	Do.	do.	.....	Do.
114	8447	757				
	F	8	Do.	do.	.....	Do.
115	8445	758				
		Sion,				
	F	3	Do.	waste land	.....	Do.
116	8435	759				
	F	10	Do.	do.	.....	Do.
117	8076 (2)	770				
	F	1	Do.	do.	.....	Do.
118	8000	781				
	F	5	Do.	do.	.....	Do.
119	Portion of 7977	789				
	F	1	Do.	do.	.....	Do.
120	7957	793				
	F	1	Do.	do.	.....	Do.
121	7925	802				
	F	9	Do.	do.	.....	Do.
122	7621	826				
		Matunga Road,				
	F	4	Do.	do.	.....	Do.
123	7430	862				
	F	1	Do.	do.	.....	Do.
124	7362	886				
	F	2	Do.	do.	.....	Do.
125	7064	887				
	F	2	Do.	do.	.....	Do.
126	7797	922				
				Carried forward ...	46,811 14 4	

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
		Matunga Road.	Brought forward ...	Rs. a. p. 46,811 14 4		
127	F / 5253	2 / 934	A piece of waste land	.....		No applicat...
128	5252	3 / 934	Do. do.	.....		Do.
129	F / 5241 & 5243 & 5246	4 / 934	Do. do.	.....		Do.
130	F / 5239	5 / 934	Do. do.	.....		Do.
131	F / 5234	7 / 934	Do. do.	.....		Do.
132	F / 5168	8 / 942	Do. do.	.....		Do.
133	F / 5151	2 / 946	Do. do.	.....		Do.
134	F / 5100	8 / 954	Do. do.	.....		Do.
135	F / 5053	7 / 959	Do. do.	.....		Do.
136	F / 4866	11 / 984	Do. do.	.....		Do.

137	F 4865	12 984	Do.	do.	... ...	.....	Do.
138	F 4648	2 1008	Do.	do.	... ...	.....	Do.
139	F 4642	8 1008	Do.	do.	... ...	.....	Do.
140	F 4615	1 1012	Do.	do.	... ...	.....	Do.
141	F 4618	4 1012	Do.	do.	... ...	.....	Do.
142	F 4613	6 1013	Do.	do.	... ...	.....	Do.
143	F 4585	5 1020	Do.	do.	... ...	.....	Do.
144	F 4577	1 1022	Do.	do.	... ...	.....	Do.
145	F 4573	5 1022	Do.	do.	... ...	.....	Do.
146	F 4206	4 1025	Do.	do.	... ...	.....	Do.
147	F 4075	3 1030	Do.	do.	... ...	.....	Do.
148	F 4076	4 1030	Do.	do.	... ...	.....	Do.
149	F 4078	6 1030	Do.	do.	... ...	.....	Do.
150	F 4079	7 1030	Do.	do.	... ...	.....	Do.
				Carried forward	...	46,811 14 4	

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
		Matunga Road.	Brought forward ...	Rs. a. p. 46,811 14 4		
151	F / 4080	8 / 1030	A piece of waste land	.....		No. applicant.
152	F / 4083	11 / 1030	Do. do.	.....		Do.
153	F / 4084	12 / 1030	Do. do.	.....		Do.
154	F / 4085	13 / 1030	Do. do.	.....		Do.
155	F / 4093	21 / 1030	Do. do.	.....		Do.
156	F / 4094	22 / 1030	Do. do.	.....		Do.
157	F / 4095	23 / 1030	Do. do.	.....		Do.
158	F / 4102	30 / 1030	Do. do.	.....		Do.
159	F / 4036	2 / 1036	Do. do.	.....		Do.
160	F / 4025	6 / 1037	Do. do.	.....		Do.
161	F / 4017	13 / 1037	Do. do.	.....		Do.

162	F / 3959	1 / 1038	Do.	do.	... ...	.....	Do.
163	F / 3991	1 / 1043	Do.	do.	... ...	.....	Included in rent given for No. 85.
164	F / 4266	1 / 1054	Do.	do.	... ...	.....	No applicant.
165	F / 4000	1 / 1059	Do.	do.	... ...	.....	Included in rent given for No. 85.
166	F / 4440	14 / 1077	Do.	do.	... ...	.....	No applicant.
167	F / 4432	22 / 1077	Do.	do.	... ...	.....	Do.
168	F / 4457	12 / 1078	Do.	do.	... ...	.....	Do.
169	F / 4510	1 / 1082 Wadalla,	Do.	do.	... ...	.....	Do.
170	F / 3891	1 / 1086	Do.	do.	... ...	.....	Do.
171	F / 4528 (1) & 4529 (1)	1 & 2 / 1104 Munmalla Tank Road.	Do.	do.	... ...	12 9 7	Privilege of cutting grass.
172	G / 3982	4 / 1367 Dadar Road,	Do.	do.	... ...	.....	No applicant.
173	G / 3506	1 / 1921 Naigaum Road,	Do.	do.	... ...	.....	Do.
174	G / 1804	1 / 2113	Do.	do.	... ...	19 0 0	Privilege of cutting grass.
				Carried forward	...	46,843 7 11	

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers	Name of Properties.	Present gross rateable Values.	Present net rateable Values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
				Rs. a. p.		
		Naigaum Road,	Brought forward ...	46,843 7 11		
	F	1	A piece of waste land	.....		Included in rent given for No. 174.
175	1805	2114				
	F	2	Do. do.	.....		Do.
176	1809	2114				
	F	1	Do. do.	.....		Do.
177	1806	2126				
	F	1	Do. do.	.....		No applicant.
178	1807	2127				
	F	7	Do. do.	.....		Do.
179	1766	2238				
		Golanghi Hill Road,	Do. do.	.....		Do.
	F	1				
180	2464	2268	Do. do.	.....		Do.
	F	1				
181	1573	2280	Do. do.	.....		Do.
	F	1				
182	2366	2290	Do. do.	.....		Do.
	F	1				
183	2364	2292	Do. do.	.....		Do.
	F					
184	2349	2300	Do. do.	.....		

185	F 2360	1 2302	Do.	do.	...	.....		Do.
186	F 3026	1 29	Do.	do.	...	.....		Do.
187	F 3024	3 2329	Do.	do.	...	.....		Do.
188	F 3022	1 2331	Do.	do.	...	.....		Do.
189	F 2881	8 2337	Do.	do.	...	.....		Do.
190	F 2878	1 2338	Do.	do.	...	.....		Do.
191	F 1202	1 2366	Do.	do.	...	.....		Do.
192	F 1202	2 2366 Parel,	Do.	do.	...	.....		Do.
193	F 1166	1 2441	Do.	do.	...	.....		Do.
194	F 1203	1 2442	Do.	do.	...	.....		Do.
195	F 1550	1 2446	Do.	do.	...	.....		Do.
196	F 1476	A 2460	Do.	do.	...	.....		Do.
197	G 2264	2 2685	Do.	do.	...	.....		Do.
198	G Portion of 2256	4 2688	Do.	do.	...	.....		Do.
			Carried forward		...	46,843 7 11		

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
				Rs. a. p.		
			Brought forward ...	46,843 7 11		
199	G / Portion of 1004 (2)	Byculla Flats, 1 / 2725	A piece of waste land	151 13 0		Let on tenancy-at-will.
200		5 / 2728	Do. do.	0 6 5		Privilege of cutting grass.
201	G / 1007 (3)	6 / 2728	Do. do.	.....		Included in rent given for No. 200.
202		7 / 2728	Do. do.	.....		Do. do. do.
203		8 / 2728	Do. do.	.....		Do. do. do.
204	G / 2218 (1-2)	1 / 2768	Do. do	.....		No applicant.
205	G / 1686	Worli Road, 3014	Do. do.	.....		Do.
206	G / 1769	Mingut Mandly, 1 / 3034	Do. do.	.....		Do.
207	G / 1562	1 / 3075	Do. do.	.....		Do.
208	G / 1146	1 / 3115	Do. do.	.....		Do

209	G / 1067	1 / 3142 Worli,	Do. do.	.....		Do.
210	G / Portion of 31	1 B / 3350 Byculla Flats,	Do. do.	.....		Do.
211	D / 3864	1 / 3406	Do. do.	.....		Do.
212		3 / 3406	Do. do.	.....		Do.
213	D / 3866, 3878 & 3888	3407	Do. do.	.....		Do.
214	D / 3881	3411	Do. do. (quarry hole or tank).	6	12 9	For privilege of washing buffaloes in tank.
215	D / Portion of 3908 (2)	4 / 3414	Do. do.	.....		No applicant.
216	E / 7153 & 7155	1 / 3436 DeLisle Road,	Do. do.	.....		Do.
217	E / 7098 to 7109, 7397 & 7398	1 / 3445	Do. do.	40	8 9	For privilege of cutting grass.
218 to 221	E / 4454 (1)	Arthur Road, 3 / 3505 — 3 A / 3508 — 2 / 3509 — 1 B / 3509	Do. do. (quarry hole or tank).	36	0 0	For privilege of taking water, fishing, &c.
222	E / 4200	2 / 3512 & 2 / 3515	Do. do.	16	0 0	Let on tenancy-at-will.
223	E / 7634 (2)	Chinchpoogli Road, 2 / 3605	Do. do.	.....		No applicant.
			Carried forward ...	47,095	0 10	

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
				Rs. a. p.		
			Brought forward ...	47,095 0 10		
224	F F G 337(2),342 (2) 2525 (2)	Elphinstone Road, Wadala,	A piece of waste land (drain and old road)	4 0 0		For privilege of taking water and cutting grass.
225	F 4528 (1 A)	1 B 1104	Do. do.	3 15 5		Average annual rent based upon the amount received during the last five years.
226	F 4528 (1 B) & 4529	1 E & 2 1104	Do. do.	3 4 5		Do. do.
227	F 8757	Sion, 1 516	Do. do.	.....		Included in rent given for No. 85.
228	G 48 (2 & 3)	Clerk Road, Portion of 3422	Do. do.	2 10 0		Average annual rent based upon the amount received during the last five years.
229	G 5303 & 5304	Mahim Fort 49	Do. do.	33 9 7		Let on tenancy-at-will.
.....	E 6022, 6024 & 6025	Nesbit Road,	Land formerly occupied by the G. I. P. R. Company near Nesbit Lane, Byculla	.....		Vacant, with the exception of 995 square yards occupied by the Bombay Education Society, which has been assessed under the buildings in charge of the Collector of Bombay.

1	F	3312 to 3316, 3319, 3324, 3325, 3326, 3326A (1to60), 3326B (1 to 76), 3327 to 3329	Matunga, No. 20		
2		3337 to 3346, 3919A & 3919B	No. 18		
3		3926 & 3926A	„ 11		
4		3935 & 3935A	„ 4		
5		3956 & 3956A	„ 5		
17	A	3468-70	8461		
49		3317 (1)	8473		
		3317 (2)			
66	D	3224	7162		

Land in charge of the Deputy Collector of Salt Revenue.

	Rs.	a.	p.		
Shivri Agur	.....				
Vadala Agur	.....				
Sulemansha Agur	.....				
Shaik Misree...	.....				
Raoli	.....				
Total rateable Value of Land ...	47,142	8	3	42,428	4 2

These Agurs have been leased at Rs. 32,000 per annum and the general tax is paid by the occupiers to the Municipality under Section 146 of Municipal Act of 1888.

Bungalows and Residences in charge of the Executive Engineer, Presidency.

Cathedral Chaplain's Quarters (two residences)	3,960	0	0
No. 1, School of Art Residence ...	2,100	0	0
No. 2, Do. do. do. ...	2,100	0	0
Bungalow No. 209, Malabar Hill ...	1,200	0	0
Carried forward ...	9,360	0	0

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Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
				Rs. a. p.		
			Brought forward ...	9,360 0 0		
67	3180	7165	Bungalow No. 211, Malabar Hill ...	3,600 0 0		
68	2658	7298	Do. No. 1, Chaopatty ...	1,920 0 0		
69	2660	Do.	Do. No. 2, do. ...	1,500 0 0		
42	E / 4727-29 G	2 / 3672	Do. No. 7, Byculla Bridge ...	1,620 0 0		
2A	439 (1 B) A	3226	Preventive Officers' Quarters, Worlee	337 0 0		
36 to 39	14	9699 A	Roman Catholic Chaplain's Quarters	360 0 0		
2	3587-3610	8430	Bungalow No. 2, Marine Lines ...	2,400 0 0		
3	3588	Do.	Do. 3, do.	2,400 0 0		
4	3589	Do.	Do. 4, do.	2,040 0 0		
6	3591	Do.	Do. 6, do.	2,040 0 0		
7	3592 (1)	Do.	Do. 7, do.	2,160 0 0		
8	Do. (1A)	Do.	Do. 8, do.	2,160 0 0		
9	Do. (2)	Do.	Do. 9, do.	2,160 0 0		
10	Do. (2A)	Do.	Do. 10, do.	2,160 0 0		

11 to 16	3593	Do.	Do.	11 to 16	do.	...	...	2,640	0	0
17	3594	8429	Do.	17	do.	...	...	1,920	0	0
18	3595	Do.	Do.	18	do.	...	...	1,920	0	0
19	3597	8428	Do.	19	do.	...	...	1,920	0	0
19 A	3599A	Do.	Do.	19A	do.	...	...	1,920	0	0
20	A 3600 & 3601	8428	Do.	20	do.	...	...	2,100	0	0
21	[redacted]	Do.	Do.	21	do.	...	...	1,920	0	0
22					do.	...	...	1,920	0	0
33	3526								0	0
35	3519	Do.	Do.	35	do.					
38	3516	Do.	Do.	38	do.	...	...	1,500	0	0
42	3511	Do.	Do.	42	do.	...	...	1,500	0	0
70 G	1302, 1303, & 1310	Portion of 9563	Cooperage Buildings on Esplanade...					2,100	0	0
70 A	3590	8430	Bungalow No. 5, Marine Lines				...	1,920	0	0
70 B	3518	8453	Do.	No. 36	do.	...	...	1,500	0	0
70 C	3517	Do.	Do.	No. 37	do.	...	...	1,500	0	0
70 D	3515	Do.	Do.	No. 39	do.	...	...	1,500	0	0
70 E	3514	Do.	Do.	No. 40	do.	...	...	1,500	0	0
70 F	3509	Do.	Do.	No. 43	do.	...	...	1,500	0	0
70	3528	Do.	Do.	No. 41	do.	...	...	2,040	0	0
I	G 5150, 5151, & 5312	54	Residence of Assistant Collector of Salt Revenue at Mahim ...				...	1,400	0	0
			Carried forward ...					73,437	0	0

Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	REMARKS.
				Rs. a. p.		
			Brought forward ...	73,437 0 0		
72	F / 6425	524	Sion Fort Residence	600 0 0		
3	G / 5308	57	Preventive Officer's Quarters at Mahim Fort	240 0 0		
71	6251	510	Rewah Fort Residence	360 0 0		
			Bungalows [redacted] Division, Military Works.			
76	A / 164	9698	Bungalow No. 76 at Upper Colaba...	840 0 0		
5	75	9699	Do. No. 5 used as Married Officers' Sanitarium with out-buildings ...	840 0 0		
11 & 12	71 & 72	Do.	Do. Nos. 11 & 12 with out-buildings	1,680 0 0		
13	70	Do.	Do. No. 13 with out-buildings	1,560 0 0		

14	61	Do.	Do.	No. 14	do.	...	1,800	0	0
15	66	Do.	Do.	No. 15	do.	...	1,080	0	0
16	65	Do.	Do.	No. 16	do.	...	1,080	0	0
17	64	Do.	Do.	No. 17	do.	...	1,080	0	0
18	63	Do.	Do.	No. 18	do.	...	780	0	0
19	57	Do.	Do.	No. 19	do.	...	780	0	0
20	58	Do.	Do.	No. 20	do.	...	1,080	0	0
21	59	Do.	Do.	No. 21	do.	...	1,080	0	0
22	60	Do.	Do.	No. 22	do.	...	1,080	0	0
24	13	Do.	Do.	No. 24	do.	...	1,980	0	0
25	12	Do.	Do.	No. 25	do.	...	1,440	0	0
26	11	Do.	Do.	No. 26	do.	...	1,080	0	0
27	10	Do.	Do.	No. 27	do.	...	1,080	0	0
30	9	Do.	Do.	No. 30	do.	...	1,200	0	0
32	6	9699	Do.	No. 32	do.	...	1,200	0	0
34	18	Do.	Do.	No. 34	do.	...	540	0	0
35	20A	Do.	Do.	No. 35	do.	...	1,680	0	0
36	8	Do.	Do.	No. 36	do.	...	1,200	0	0
37	20	Do.	Do.	No. 37	do.	...	1,440	0	0
38	19	Do.	Do.	No. 38	do.	...	900	0	0
39	31	Do.	Do.	No. 39	do.	...	2,160	0	0
40	30	Do.	Do.	No. 40	do.	...	1,560	0	0
41	29	Do.	Do.	No. 41	do.	...	1,200	0	0
				Carried forward		...	1,08,057	0	0

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Government or Executive Engineers' Numbers.	Municipal Ward Numbers.	Locality and City Survey Numbers.	Names of Properties.	Present gross rateable Values.	Present net rateable values after deducting 10 per cent. in lieu of all allowances for repairs or any other expenses in accordance with Section 154 of the Municipal Act.	Remarks.
				Rs. a. p.		
			Brought forward ...	1,08,057 0 0		
42	26 (1)	9699	Bungalow No. 42, with out-buildings.	1,920 0 0		
43	25	Do.	Do. No. 43, do. ...	900 0 0		
44	24	Do.	Do. No. 44, do. ...	1,500 0 0		
79	169	Do.	Bungalow Sanitarium No. 79 ...	2,400 0 0		
78	166	Do.	Chaplain's Quarters No. 78 ...	1,200 0 0		
			Quarters in Colaba old Sanitarium Hospital Compound Bungalow			
3 & 4	230 to 235	9666	No. 3, with out-buildings ...	780 0 0		
			Bungalow No. 4, with out-buildings	604 0 0		
			New Warrant Officers' Quarters [illegible] out-buildings...	12,124 0 0		
			20 Fa[illegible]			
			Fort Castle Park.			
			Warrant and Non-Commissioned Officers' Quarters.			
16	A		Bungalow No. 1, with out-buildings.	960 0 0		
	1605	9312	Do. No. 2, do. ...	960 0 0		
17	1606					
18	1607		Do. No. 3, do. ...	960 0 0		
1, 2, 3 & 5	883, 887, 888, 889 & 890	9560	Warrant and Non-Commissioned Officers' Quarters Nos. 1, 2, 3 & 5, and Lascars' Quarters at Apollo Bunder	6,410 0 0		

2	3331					
3	3220	8474	Quarter No. 3, with			
4	3221	Do.	Do.	No. 4	do.	
5	3222	Do.	Do.	No. 5	do.	...
6	3223	Do.	Do.	No. 6	do.	600 0 0
7	3234	Do.	Do.	No. 7	do.	... 600 0
8	3225	Do.	Do.	No. 8	do.	... 480

Bungalows and Residences in charge of the Executive Engineer, Bombay Defences, Division, Military Works.

53 & 54	A / 6A	Upper Colaba, West Foreshore near Officers' Mess.	Two Officers' Quarters	...	...	2,640 0 0	
68 & 69	D / 3498(3)	Cumballa Hill, opposite Mahaluxmi Battery.	Cumballa Hill Bungalow	...	...	144 0 0	
			Total rateable Value of Bungalows and Residences		...	1,47,019 0 0	1,32,318 0 0

N.B.—The Municipal Ward Numbers were given by the Municipal Assessor's Surveyor.

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GENERAL SUMMARY.

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	Net rateable Value.	
Public Buildings and Land in connection therewith	Rs.	12,83,307
Land	„	42,428
		Rs. 13,25,735
Officers' Bungalows and Residences	Rs.	1,32,318
Deduct—8·6 per cent. for vacancies...	„	11,379

Total net